

PhD positions (m|w|d)

Apply for your PhD in DESTINY – The doctoral school of the European Bioeconomy University (EBU) on the **DE**sign and **SUS**tainability Assessment of **INN**ovative biomass production systems and value-chains in the **BIOECO**NomY

The EBU's joint doctoral network DESTINY is a Horizon Europe Marie Skłodowska-Curie Action and offers a total number of 15 fully funded PhD positions in an inter- and transdisciplinary research and education programme.

Six leading universities in bioeconomy research and training collaborate since 2019 to educate a new generation of truly European experts, fostering rigorous, relevant and interdisciplinary research developing solutions for the challenges of the 21st century.



DESTINY will address the transition from a fossil-based towards a biobased economy by developing novel methods and tools to optimise biomass production systems, develop novel biobased value chains and assess their sustainability holistically.

We cover a number of disciplines and sectors from agronomy and engineering to economics, political and social sciences, to create a novel type of scientist: the bioeconomist.

For achieving this, we offer a multi-disciplinary curriculum to equip the 15 Doctoral Candidates with the knowledge and skills need to become leading experts of Europe's sustainable bioeconomy transition. The research programme is at the crossroads between and targets the agricultural and forestry sectors, the bioeconomy industry, academia, consultancies and governments.

PhD research topic

Designing concepts for sustainable intensification of agrifood chains

(reference code: DESTINY-DC3.1)

The doctoral candidate will research at Alma Mater Studiorum University of Bologna (Italy) and University of Hohenheim (Stuttgart, Germany) on the following research project.

Specific objective of the PhD research project

Development of modern systematic concepts for a sustainable and ethical intensification of agrifood chains (animal and plant products) in agreement to circular bioeconomy ideas, including:

- optimization of agri-food supply chains design, planning and operations through the implementation of appropriate sustainable supply chain management and logistics principles;
 - development of strategies to minimize the environmental burden and maximization of supply chain sustainability of selected product categories by adopting a supply chain perspective with special emphasis on poultry sector;
 - exploitation of the potential reuse and valorisation of by-products and waste produced at farm and processing levels with special emphasis on poultry sector;
- to promote a more efficient use of natural resources, reducing the impact of agri-food systems in the environment.**

Conditions and salary

After successful completion of the 3-year PhD programme, the doctoral candidate will receive a PhD double degree from both universities and an additional certificate from the EBU DESTINY network as diploma supplement.

Extent of employment: Full time

Duration of employment: Limited to 36 months

Salary: Grant provided by the Marie Skłodowska-Curie Action Joint Doctoral Network:

Living allowance (gross): 3,311.60€ per month ^a	Annual gross salary:
Mobility allowance: 600.00€ per month	46,939.20€
(Family allowance: 660.00€ per month) ^b	+ family allowance, if applicable

^a Country coefficient corrected GROSS amount paid by the European Research Executive Agency (REA) to the recruiting university. The actual net salary will depend on the national taxation and social security coverage.

^b Only applicable to doctoral candidates having (or acquiring) family obligations during the PhD programme in form of persons linked to them by (i) marriage or a relationship with equivalent status recognized by national legislation, or (ii) dependent children who are being maintained by them) during the action duration.

All DCs will have an office workspace and all facilities for their research project.

For questions on the thesis topic please contact:

Prof. Massimiliano Petracci | m.petracci@unibo.it

Supervision and training

- Supervision by leading experts in a Thesis Advisory Committee in a collaborative mentoring programme;
- Network-wide training events: three research schools and four workshops;
- Dissemination and outreach activities (e.g. attend scientific conferences);
- A tailor-made career development plan;
- Guidance and compliance with [The European Charter for Researchers](#);
- Two secondments at:
 - University of Hohenheim (Stuttgart, Germany);
 - Amadori company (Cesena, Italy).

Your qualification and experience

- Graduation in a discipline related to agriculture, animal production, food science, biotechnology, sustainability, bioeconomy (Master degree required);
- Deep knowledge of agri-food sector and supply chains of food of vegetable and animal origin;
- Experience with sustainability assessment and applied software's;
- Strong interest to work in an inter- and transdisciplinary research environment within a Europe-wide network;
- Ability to work on and solve problems independently and well-structured;
- Ability to write scientific publications;
- Team spirit, enthusiasm, creativity and willingness to travel;
- Proficiency in written and spoken English (proof required).

Eligibility

The doctoral candidate must comply with the following criteria:

- not have resided or carried out their main activity (e.g. studies) in the country of the recruiting beneficiary for more than 12 months in the past 36 months before recruitment;
- not be in possession of a doctoral degree;
- become enrolled in the doctoral programme leading to the award of a doctoral degree at the first supervising university and, within one year, become enrolled in the doctoral programme leading to the award of a doctoral degree at the first supervising university;
- work exclusively for the PhD research project.

Assessment criteria

The 2-step selection process will be based on the merits providing equal opportunity and will be in agreement with the [European Code of Conduct for the Recruitment of Researchers](#).

In the **first step**, applications will be evaluated according to the following criteria:

- scientific quality of the applicant's CV and educational record;
- expected individual impact and benefit to the fellow and to the project;
- ability to collaborate and communicate;
- previous experience in the subject of doctoral research project.

In the **second step**, the shortlisted candidates will be invited for an (online) interview with the Thesis Advisory Committee. Subsequently, the candidates will be notified of the outcome.

Starting Date

The DESTINY doctoral school is planned to start on 1st January 2025 with all doctoral candidates being enrolled as PhD students at the first supervising institution. Doctoral candidates enrolled at University of Bologna will start working on their projects in November 1st 2024.

Apply now

You can **apply** for a maximum of three PhD positions within DESTINY by submitting the following documents **until 11th March 2024** to EMAIL address: distal.destiny-team@unibo.it

- Up to date CV including details of education/qualifications, work experience and publications;
- Copy of a valid ID/Passport;
- Letter of motivation including your research career goals, skills and experience with respect to the PhD research project (max. 1 page);
- Summary of the Master Degree thesis and a brief description of the most recent scientific activity (max. 500 words);
- Proof of English language (Mother tongue, completion of English Master programme, English test*).

For further information about DESTINY please contact: EMAIL address: distal.destiny-team@unibo.it

* TOEFL Internet-based-test (90); IELTS Academic (6,5); Cambridge EFL-Exam (CAE); Cambridge Business English Certificate BEC (BEC Higher); London Chamber of Commerce LCCI Examinations Board (Level 3, Distinction of Credit); TELC / Certificate in English (B2, minimum good); Trinity Certificates / ISE (ISE III); UNICert II Englisch (without grades); ALTE (4).

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PhD research topic

Model-based approaches to predict the performance of industrial plants on marginal agricultural land in Europe

(reference code: DESTINY-DC3.2)

The doctoral candidate will research at AgroParisTech (Palaiseau, France) and the University of Hohenheim (Stuttgart, Germany) on the following research project.

Specific objective of the PhD research project

The potential of **marginal lands** (ie, lands that face biophysical challenges such as shallow soils, low pH or arid conditions) to grow biomass crops has been largely documented. However, their low productivity remains a challenge and very few attempts have been made to quantitatively relate marginality factors to crop yields and biomass quality. The aim of this PhD project is **to develop yield models for industrial crops grown on marginal land**, to test their accuracy against a large body of experimental data and **to map out regional production potentials across the EU**. Various models will be used: biophysical agro-ecosystem models, simple agro-meteorological relationships, or data-driven approaches such as machine-learning and artificial intelligence. Modelling will also encompass **the environmental impacts of these crops** to assess their overall sustainability and potential benefits to the bioeconomy.

Conditions and salary

After successful completion of the 3-year PhD programme, the doctoral candidate will receive a PhD double degree from both universities and an additional certificate from the EBU DESTINY network as diploma supplement.

Extent of employment: **Full time**

Duration of employment: **Limited to 36 months**

Salary: Grant provided by the Marie Skłodowska-Curie Action Joint Doctoral Network:

Living allowance (gross): 3957.60€ per month ^a

Mobility allowance: 600.00€ per month

(Family allowance: 600.00€ per month) ^b

Annual gross salary (including all social contributions):

54,691.20 €

+ family allowance, if applicable

^a Country coefficient corrected GROSS amount paid by the European Research Executive Agency (REA) to the recruiting university. The actual net salary will depend on the national taxation and social security coverage.

^b Only applicable to doctoral candidates having (or acquiring) family obligations during the PhD programme in form of persons linked to them by (i) marriage or a relationship with equivalent status recognized by national legislation, or (ii) dependent children who are being maintained by them) during the action duration.

All DCs will have an office workspace and all facilities for their research project. For questions on the thesis topic please contact:

Prof. Dr. Benoit Gabrielle | Benoit.Gabrielle@agroparistech.fr

Supervision and training

- Supervision by leading experts in a Thesis Advisory Committee in a collaborative mentoring programme;
- Network-wide training events: three research schools and four workshops;
- Dissemination and outreach activities (e.g. attend scientific conferences);
- A tailor-made career development plan;
- Guidance and compliance with [The European Charter for Researchers](#)
- One secondment at:
 - the French National Institute for Agricultural Research (INRAE, Palaiseau, France);

Your qualification and experience

- Graduation in a discipline related to agriculture, sustainability assessment, bioeconomy, statistics or bioinformatics (Master's degree required);
- Knowledge of crop science, agronomy or environmental topics ;
- Experience with modelling in relation to agriculture or biological systems ;
- Strong interest to work in an inter- and transdisciplinary research environment within a Europe-wide network;
- Ability to work on and solve problems independently and well-structured;
- Ability to write scientific publications
- Team spirit, enthusiasm, creativity and willingness to travel;
- Proficiency in written and spoken English (proof required) and French, German is a plus.

Eligibility

The doctoral candidate must comply with the following criteria:

- not have resided or carried out their main activity (e.g. studies) in France for more than 12 months in the past 36 months before recruitment;
- not be in possession of a doctoral degree;
- become enrolled in the doctoral programme leading to the award of a doctoral degree at the first supervising university (AgroParisTech) and, within one year, become enrolled in the doctoral programme leading to the award of a doctoral degree at the second supervising university;
- Work exclusively and full time on the PhD research project.

Assessment criteria

The 2-step selection process will be based on the merits providing equal opportunity and will be in agreement with the [European Code of Conduct for the Recruitment of Researchers](#).

In the **first step**, applications will be evaluated according to the following criteria:

- scientific quality of the applicant's CV and educational record;
- expected individual impact and benefit to the fellow and to the Destiny project;
- ability to collaborate and communicate;
- previous experience in the subject of doctoral research project.

In the **second step**, the shortlisted candidates will be invited for an (online) interview with the Thesis Advisory Committee. Subsequently, the candidates will be notified of the outcome.

Starting Date

The DESTINY doctoral school is planned to start on 1st January 2025 with all doctoral candidates being enrolled as PhD students at the first supervising institution. Doctoral candidates may start working on their projects as early as September 2024 and in December 2024 at the latest.

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- Up to date CV including details of education/qualifications, work experience and publications;
- Copy of a valid ID/Passport;
- Letter of motivation your research career goals, skills and experience with respect to the PhD research project (max. 1 page);
- Certified copy of the Academic degree translated into English, which does formally entitle to start a PhD programme in the country in which the doctoral candidate intends to be recruited;
- Academic Transcript of Records
- Summary of the Master's Degree thesis or a brief description of the most recent scientific activity (max. 500 words)
- Proof of English language (Mother tongue, completion of English Master's programme, English test *)

* TOEFL Internet-based-test (90); IELTS Academic (6,5); Cambridge EFL-Exam (CAE); Cambridge Business English Certificate BEC (BEC Higher); London Chamber of Commerce LCCI Examinations Board (Level 3, Distinction of Credit); TELC / Certificate in English (B2, minimum good); Trinity Certificates / ISE (ISE III); UNlcert II Englisch (without grades); ALTE (4).

For further information about DESTINY please contact:

destiny-team@agroparistech.fr

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PhD research topic

Understanding the functionalities of agriculture waste streams to redesign crops

(reference code: DESTINY-DC3.3)

The doctoral candidate will research at Wageningen University and Research (Wageningen, the Netherlands) and at University of Hohenheim (Stuttgart, Germany) on the following research project.

Specific objective of the PhD research project

Understanding the functionalities of agriculture waste streams to redesign crops, by:

- **Uncover the chemical composition and functionalities** of different sources of agriculture side streams.
- **Identify genetic markers of key genes** responsible for biomass quality and composition in plant organs that are currently not used.
- **Develop tools for breeding** for varieties with better quality and functionalities.

This project will generate tools for breeding for “whole biomass-use” crops, that are more efficient in the use of resources.

Conditions and salary

After successful completion of the PhD programme, the doctoral candidate will receive a PhD double degree from both universities and an additional certificate from the EBU DESTINY network as diploma supplement.

Extent of employment: Full time

Duration of employment: 48 months

Salary: Wageningen University & Research offers excellent terms of employment. A few highlights from our Collective Labour Agreement include:

- Partially paid parental leave;
- working hours that can be discussed and arranged so that they allow for the best possible work-life balance;
- the option to accrue additional compensation / holiday hours by working more, up to 40 hours per week;
- there is a strong focus on vitality and you can make use of the sports facilities available on campus for a small fee;
- a fixed December bonus of 8.3%;
- excellent pension scheme.

In addition to these first-rate employee benefits, you will receive a fully funded PhD position and you will be offered a course program tailored to your needs and the research team.

The gross salary for the first year is € 2.770 - per month rising to € 3.539,- in the fourth year in according to the Collective Labour Agreements for Dutch Universities (CAO-NU) (scale P). This is based on a full-time working week of 38 hours. We offer a temporary contract for 18 months, which will be extended for the duration of the project if you perform well.

All DCs will have an office workspace and all facilities for their research project.

For questions on the thesis topic please contact:

Prof. Dr Luisa M Trindade, luisa.trindade@wur.nl

Supervision and training

- Supervision by leading experts in a Thesis Advisory Committee in a collaborative mentoring programme;
- Network-wide training events: three research schools and four workshops;
- Dissemination and outreach activities (e.g. attend scientific conferences);
- A tailor-made career development plan;
- Guidance and compliance with [The European Charter for Researchers](#);
- One secondments at:
 - University of Hohenheim (Stuttgart, Germany) for 9 month

Your qualification and experience

- Graduation in a discipline related to plant biology, plant genetics or biobased sciences, (Bologna agreement-compliant degree on Master level required);
- Interest in crops for a circular and biobased economy
- Affinity with plant genetics and biochemistry
- Ability to work on and solve problems independently and well-structured;
- Good communication skills and interest on working together with people from other scientific disciplines (multi-disciplinary projects);
- For this position your command of the English language is expected to be at C1 level (recent proof required). More information can be found [here](#).
- Willingness to travel.

Eligibility

The doctoral candidate must comply with the following criteria:

- not have resided or carried out their main activity (e.g. studies) in the country of the recruiting beneficiary for more than 12 months in the past 36 months before recruitment;
- not be in possession of a doctoral degree;

- become enrolled in the doctoral programme leading to the award of a doctoral degree at the first supervising university and, within one year, become enrolled in the doctoral programme leading to the award of a doctoral degree at the second supervising university;
- work exclusively and full time for the PhD research project.

Assessment criteria

The 2-step selection process will be based on the merits providing equal opportunity and will be in agreement with the [European Code of Conduct for the Recruitment of Researchers](#).

In the **first step**, applications will be evaluated according to the following criteria:

- scientific quality of the applicant's CV and educational record;
- expected individual impact and benefit to the fellow and to the project;
- ability to collaborate and communicate;
- previous experience in the subject of doctoral research project.

In the **second step**, the shortlisted candidates will be invited for an (online) interview with the Thesis Advisory Committee. Subsequently, the candidates will be notified of the outcome.

Starting Date

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- Up to date CV including details of education/qualifications, work experience and publications;
- Copy of a valid ID/Passport;
- Letter of motivation your research career goals, skills and experience with respect to the PhD research project (max. 1 page);
- For this position your command of the English language is expected to be at C1 level (recent proof required). More information can be found [here](#).

For further information about DESTINY please contact:
destiny-team@agroparistech.fr

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For achieving this, we offer a multi-disciplinary curriculum to equip the 15 Doctoral Candidates with the knowledge and skills needed to become leading experts of Europe's sustainable bioeconomy transition. The research programme is at the crossroads between and targets the agricultural and forestry sectors, the bioeconomy industry, academia, consultancies and governments.

PhD research topic

Ecological Relevance of Waste Management in Bioeconomy

(reference code: DESTINY-DC3.4)

The doctoral candidate will research at BOKU University (Vienna, Austria) and at the University of Eastern Finland (Joensuu Finland), an internship is planned at *Unverschwendet* (Austria) on the following research project.

Specific objective of the PhD research project

Quantification and evaluation of the emission potential and actual emissions released during

- recycling of biogenic waste,
- treatment of its residues,
- application (e.g., of compost or fermentation residues) on soils in comparison to future solutions of bioeconomy.

Conditions and salary

After successful completion of the 3-year PhD programme, the doctoral candidate will receive a PhD double degree from both universities and an additional certificate from the EBU DESTINY network as diploma supplement.

Extent of employment: Full time

Duration of employment: Limited to 36 months

Salary: Grant provided by the Marie Skłodowska-Curie Action Joint Doctoral Network:

Living allowance (gross): 5,409.62 € per month ^a	Annual gross salary:
Mobility allowance: 600.00€ per month	64,915.44€
(Family allowance: 660.00€ per month) ^b	+ family allowance, if applicable

^a salary due to Austrian legislation. The actual net salary will depend on the national taxation and social security coverage.

^b Only applicable to doctoral candidates having (or acquiring) family obligations during the PhD programme in form of persons linked to them by (i) marriage or a relationship with equivalent status recognized by national legislation, or (ii) dependent children who are being maintained by them) during the action duration.

All DCs will have an office workspace and all facilities for their research project.

For questions on the thesis topic please contact: stefan.salhofer@boku.ac.at

Supervision and training

- Supervision by leading experts in a Thesis Advisory Committee in a collaborative mentoring programme;
- Network-wide training events: three research schools and four workshops;
- Dissemination and outreach activities (e.g. attend scientific conferences);
- A tailor-made career development plan;
- Guidance and compliance with [The European Charter for Researchers](#);
- Two secondments at:
 - University of Eastern Finland (Joensuu, Finland), 9 months;
 - Unverschwendet (Vienna, Austria), 4 months.

Your qualification and experience

- Graduation in a discipline related to system analysis, waste management, agriculture, sustainability, bioeconomy (Master degree required);
- Understanding of biomass supply systems and biobased value chains;
- Experience with Life Cycle Assessment;
- Interest in modelling of processes for organic waste treatment;
- Strong interest to work in an inter- and transdisciplinary research environment within a Europe-wide network;
- Ability to work on and solve problems independently and well-structured;
- Team spirit, enthusiasm, creativity and willingness to travel;
- Proficiency in written and spoken English (proof required).

Eligibility

The doctoral candidate must comply with the following criteria:

- not have resided or carried out their main activity (e.g. studies) in the country of the recruiting beneficiary for more than 12 months in the past 36 months before recruitment;
- not be in possession of a doctoral degree;
- become enrolled in the doctoral programme leading to the award of a doctoral degree at the first supervising university and, within one year, become enrolled in the doctoral programme leading to the award of a doctoral degree at the second supervising university;
- work exclusively and full time for the PhD research project.

Assessment criteria

The 2-step selection process will be based on the merits providing equal opportunity and will be in agreement with the [European Code of Conduct for the Recruitment of Researchers](#).

In the **first step**, applications will be evaluated according to the following criteria:

- scientific quality of the applicant's CV and educational record;
- expected individual impact and benefit to the fellow and to the project;
- ability to collaborate and communicate;
- previous experience in the subject of doctoral research project.

In the **second step**, the shortlisted candidates will be invited for an (online) interview with the Thesis Advisory Committee. Subsequently, the candidates will be notified of the outcome.

Starting Date

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- Certified copy of the Academic degree translated into English, which does formally entitle to start a PhD programme in the country in which the doctoral candidate intends to be recruited;
- Certified academic Transcript of Records
- Summary of the Master Degree thesis or a brief description of the most recent scientific activity (max. 500 words);
- Proof of English language (Mother tongue, completion of English Master programme, English test *)

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PhD research topic

New business models on bio-based textile products

(reference code: DESTINY-DC4.1)

The doctoral candidate will conduct research at the University of Eastern Finland (Kuopio campus, Finland) and at Wageningen University & Research (Wageningen, the Netherlands) on the following research project.

Specific objective of the PhD research project

Advance the international business research on the adaptation and innovation of business models of firms producing sustainable bio-based materials for textile production for enhancing their international competitiveness and strengthening position in the sector's value network, including:

- the conceptualization of potential **bio-based business models** allowing to utilize the possibilities for the integration of biobased resources for textile production such as wood-based fibers and recycling textile fibers in the holistically sustainable way that generates added value to the raw material use.
- the development of a **framework for the firms' business model adaptation and innovation** to account for technological and competitive pressures amongst actors in the global textile sector
- the **application of these business models as cases** in bio-based textile firm's internationalization process and alignment with operations of other actors in textile sector's value network

to develop the business opportunities of new technologies for textile sector

Conditions and salary

The Doctoral Researcher position will be filled by a person to be selected for the [Doctoral Programme in Business Studies](#). The main duty of the Doctoral Researcher is to complete their doctoral dissertation in accordance with their research proposal written in the beginning of the employment period.

After successful completion of the 4-year PhD programme, the doctoral candidate will receive a PhD double degree from both universities and an additional certificate from the EBU DESTINY network as diploma supplement.



Extent of employment: **Full time**

Duration of employment: **Limited to 48 months**

Salary: Grant provided by the Marie Skłodowska-Curie Action

Joint Doctoral Network:

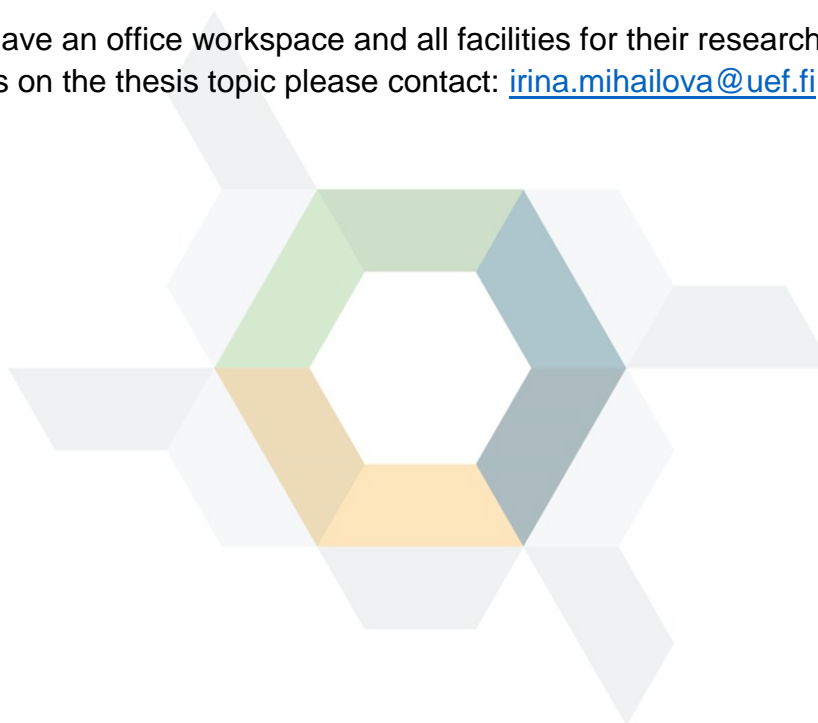
Living allowance (gross): 3100,00€ per month ^a	Annual gross salary:
Mobility allowance: 500.00€ per month	55,956.00€
(Family allowance: 550.00€ per month) ^b	+ family allowance, if applicable

^a Country coefficient corrected GROSS amount paid by the European Research Executive Agency (REA) to the recruiting university. The actual net salary will depend on the national taxation and social security coverage.

^b Only applicable to doctoral candidates having (or acquiring) family obligations during the PhD programme in form of persons linked to them by (i) marriage or a relationship with equivalent status recognized by national legislation, or (ii) dependent children who are being maintained by them) during the action duration.

All DCs will have an office workspace and all facilities for their research project.

For questions on the thesis topic please contact: irina.mihailova@uef.fi



Supervision and training

- Supervision by leading experts in a Thesis Advisory Committee in a collaborative mentoring programme;
- Network-wide training events: three research schools and four workshops;
- Dissemination and outreach activities (e.g. attend scientific conferences);
- A tailor-made career development plan;
- Guidance and compliance with [The European Charter for Researchers](#);
- Two secondments at:
 - Wageningen University (Wageningen, the Netherlands)
 - Metsä Group research and production units (Finland).

Your qualification and experience

- Graduation in a discipline related to international business, strategy, and/or general management (Master degree required);
- Basic understanding of biomass supply systems and biobased value chains;
- Experience in the textile market in terms of material properties and supply chains or business logics will be considered an asset;
- Strong interest to work in an inter- and transdisciplinary research environment within a Europe-wide network;
- Ability to work on and solve problems independently and in well-structured manner;
- Team spirit, enthusiasm, creativity and willingness to travel;
- Proficiency in written and spoken English (proof required), Finnish is a plus.

Eligibility

The doctoral candidate must comply with the following criteria:

- not have resided or carried out their main activity (e.g. studies) in the country of the recruiting beneficiary for more than 12 months in the past 36 months before recruitment;
- not be in possession of a doctoral degree;
- become enrolled in the doctoral programme leading to the award of a doctoral degree at the first supervising university and, within one year, become enrolled in the doctoral programme leading to the award of a doctoral degree at the second supervising university;
- work exclusively and full time for the PhD research project.



Assessment criteria

The 2-step selection process will be based on the merits providing equal opportunity and will be in agreement with the [European Code of Conduct for the Recruitment of Researchers](#).

In the **first step**, applications will be evaluated according to the following criteria:

- scientific quality of the applicant's CV and educational record;
- expected individual impact and benefit to the fellow and to the project;
- ability to collaborate and communicate;
- previous experience in the subject of doctoral research project.

In the **second step**, the shortlisted candidates will be invited for an (online) interview with the Thesis Advisory Committee. Subsequently, the candidates will be notified of the outcome.

Starting Date

The DESTINY doctoral school is planned to start on 1st January 2025 with all doctoral candidates being enrolled as PhD students at the first supervising institution.

Doctoral candidates may start working on their projects as early as September 2024 and in December 2024 at the latest.

Apply now

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- Up to date CV including details of education/qualifications, work experience and publications;
- Copy of a valid ID/Passport;
- Letter of motivation your research career goals, skills and experience with respect to the PhD research project (max. 1 page);
- Certified copy of the Academic degree translated into English, which does formally entitle to start a PhD programme in the country in which the doctoral candidate intends to be recruited;
- Academic Transcript of Records proofing the candidate to have graduated 'above-average' (average Master grade better than 2.5 or being within the best 50% of the graduates from the Master programme within the year of graduation)
- Summary of the Master Degree thesis or a brief description of the most recent scientific activity (max. 500 words);
- A good command of the English language (IELTS grade min. 6.5, or equivalent).

For further information about DESTINY please contact: destiny-EMAIL address: destiny-team@agroparistech.fr

PhD positions (m|w|d)

Apply for your PhD in DESTINY – The doctoral school of the European Bioeconomy University on the DEsign and SuSTainability Assessment of Innovative biomass production systems and value-chains in the BioecoNomY

The EBU's joint doctoral network DESTINY is a Horizon Europe Marie Skłodowska-Curie Action and offers a total number of 15 fully funded PhD positions in an inter- and transdisciplinary research and education programme.

Six leading universities in bioeconomy research and training collaborate since 2019 to educate a new generation of truly European experts, fostering rigorous, relevant and interdisciplinary research developing solutions for the challenges of the 21st century.



DESTINY will address the transition from a fossil-based towards a biobased economy by developing novel methods and tools to optimise biomass production systems, develop novel biobased value chains and assess their sustainability holistically.

We cover a number of disciplines and sectors from agronomy and engineering to economics, political and social sciences, to create a novel type of scientist: the bioeconomist.

For achieving this, we offer a multi-disciplinary curriculum to equip the 15 Doctoral Candidates with the knowledge and skills needed to become leading experts of Europe's sustainable bioeconomy transition. The research programme is at the crossroads between and targets the agricultural and forestry sectors, the bioeconomy industry, academia, consultancies and governments.

PhD research topic

Antiviral activity of woody materials and their coatings in built environment

(reference code: DESTINY-DC4.2)

The doctoral candidate will research at University of Eastern Finland (Joensuu campus, Finland) and at The University of Natural Resources and Life Sciences (BOKU), (Vienna, Austria) on the following research project.

Specific objective of the PhD research project

Advance the understanding of natural chemical-based antiviral activity of solid surfaces and the role of wood-derived chemicals on formation of antiviral performance, including:

- chemical characterization of the extractive compounds or wood and tree bark;
- assessment of antivirality and fractional separation of selected components;
- experimental work on fabricating bioinspired antiviral surfaces using these chemical constituents

to improve our understanding on bioinspired antiviral surfaces.

Conditions and salary

The Doctoral Researcher position will be filled by person to be selected for the [LUMETO Doctoral Programme](#). The main duty of the Doctoral Researcher is to complete their doctoral dissertation in accordance with their research proposal written in the beginning of the employment period.

After successful completion of the 3-year PhD programme, the doctoral candidate will receive a PhD double degree from both universities and an additional certificate from the EBU DESTINY network as diploma supplement.

Extent of employment: Full time

Duration of employment: Limited to 36 months

Salary: Grant provided by the Marie Skłodowska-Curie Action Joint Doctoral Network:

Living allowance (gross): 3100.00€ per month ^a	Annual gross salary:
Mobility allowance: 500.00€ per month	55,956,00€
(Family allowance: 550.00€ per month) ^b	+ family allowance, if applicable

^a Country coefficient corrected GROSS amount paid by the European Research Executive Agency (REA) to the recruiting university. The actual net salary will depend on the national taxation and social security coverage.



^b Only applicable to doctoral candidates having (or acquiring) family obligations during the PhD programme in form of persons linked to them by (i) marriage or a relationship with equivalent status recognized by national legislation, or (ii) dependent children who are being maintained by them) during the action duration.

All DCs will have an office workspace and all facilities for their research project.

For questions on the thesis topic please contact: Antti.Haapala@uef.fi



Supervision and training

- Supervision by leading experts in a Thesis Advisory Committee in a collaborative mentoring programme;
- Network-wide training events: three research schools and four workshops;
- Dissemination and outreach activities (e.g. attend scientific conferences);
- A tailor-made career development plan;
- Guidance and compliance with [The European Charter for Researchers](#);
- Three or more secondments at:
 - University of Jyväskylä (Jyväskylä, Finland).
 - The University of Natural Resources and Life Sciences (Vienna, Austria)
 - Stora Enso Ltd (Finland, UK or other country in Europe)

Your qualification and experience

- Graduation in a discipline related to forestry, biorefining engineering or chemistry, material science, microbiology and/or bioeconomy (Master degree required);
- Understanding of experimental laboratory work, chemical analysis and material science, biomass chemistry; chemical characterization methods and/or chemical engineering separation systems.
- Strong interest to work in an inter- and transdisciplinary research environment within a Europe-wide network;
- Ability to work on and solve problems independently and in well-structured manner;
- Team spirit, enthusiasm, creativity and willingness to travel;
- Proficiency in written and spoken English (proof required), Finnish is a plus.

Eligibility

The doctoral candidate must comply with the following criteria:

- not have resided or carried out their main activity (e.g. studies) in the country of the recruiting beneficiary for more than 12 months in the past 36 months before recruitment;
- not be in possession of a doctoral degree;
- become enrolled in the doctoral programme leading to the award of a doctoral degree at the first supervising university and, within one year, become enrolled in the doctoral programme leading to the award of a doctoral degree at the second supervising university;
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For further information about DESTINY please contact: destiny-EMAIL address: destiny-team@agroparistech.fr

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PhD research topic

Holistic evaluation and interconnected value generation of hemp utilization in material, chemical and pharmaceutical sectors

(reference code: DESTINY-DC4.3)

The doctoral candidate will research at University of Eastern Finland (Kuopio campus, Finland) and at University of Bologna (Bologna, Italy) on the following research project.

Specific objective of the PhD research project

Advance the value-network of European hemp valorization, including:

- industrial hemp-based materials for (bio)material science and applications;
- speciality chemicals extracted from hemp and hemp processing residues such as distillates, essential oils, powders and biochar/hydrochar;
- antimicrobial molecules and mixtures to be utilized in surface treatments, coatings, composites or seedbeds
- food perspective (e.g. edible oil, flour, flavoring, preservatives)

to improve comprehensive utilization of hemp biomass.

Conditions and salary

The Doctoral Researcher position will be filled by person to be selected for the [LUMETO Doctoral Programme](#). The main duty of the Doctoral Researcher is to complete their doctoral dissertation in accordance with their research proposal written in the beginning of the employment period.

After successful completion of the 3-year PhD programme, the doctoral candidate will receive a PhD double degree from both universities and an additional certificate from the EBU DESTINY network as diploma supplement.

Extent of employment: **Full time**

Duration of employment: **Limited to 36 months**

Salary: Grant provided by the Marie Skłodowska-Curie Action Joint Doctoral Network:

Living allowance (gross): 3100.00€ per month ^a	Annual gross salary:
Mobility allowance: 500.00€ per month	55,956,00€
(Family allowance: 550.00€ per month) ^b	+ family allowance, if applicable

^a Country coefficient corrected GROSS amount paid by the European Research Executive Agency (REA) to the recruiting university. The actual net salary will depend on the national taxation and social security coverage.



^b Only applicable to doctoral candidates having (or acquiring) family obligations during the PhD programme in form of persons linked to them by (i) marriage or a relationship with equivalent status recognized by national legislation, or (ii) dependent children who are being maintained by them) during the action duration.

All DCs will have an office workspace and all facilities for their research project.

For questions on the thesis topic please contact: Reijo.Lappalainen@uef.fi



Supervision and training

- Supervision by leading experts in a Thesis Advisory Committee in a collaborative mentoring programme;
- Network-wide training events: three research schools and four workshops;
- Dissemination and outreach activities (e.g. attend scientific conferences);
- A tailor-made career development plan;
- Guidance and compliance with [The European Charter for Researchers](#);
- Two secondments at:
 - Enecta BV (Italy)
 - University of Bologna (Bologna, Italy).

Your qualification and experience

- Graduation in a discipline related to agriculture, biorefining engineering or chemistry, material science, sustainability, bioeconomy (Master degree required);
- Understanding of biomass supply systems and biobased value chains; chemical characterization methods and/or chemical engineering separation systems
- Strong interest to work in an inter- and transdisciplinary research environment within a Europe-wide network;
- Ability to work on and solve problems independently and in well-structured manner;
- Team spirit, enthusiasm, creativity and willingness to travel;
- Proficiency in written and spoken English (proof required), Finnish is a plus.

Eligibility

The doctoral candidate must comply with the following criteria:

- not have resided or carried out their main activity (e.g. studies) in the country of the recruiting beneficiary for more than 12 months in the past 36 months before recruitment;
- not be in possession of a doctoral degree;
- become enrolled in the doctoral programme leading to the award of a doctoral degree at the first supervising university and, within one year, become enrolled in the doctoral programme leading to the award of a doctoral degree at the second supervising university;
- work exclusively and full time for the PhD research project.

Assessment criteria

The 2-step selection process will be based on the merits providing equal opportunity and will be in agreement with the [European Code of Conduct for the Recruitment of Researchers](#).

In the **first step**, applications will be evaluated according to the following criteria:

- scientific quality of the applicant's CV and educational record;
- expected individual impact and benefit to the fellow and to the project;
- ability to collaborate and communicate;
- previous experience in the subject of doctoral research project.

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Starting Date

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- Academic Transcript of Records proofing the candidate to have graduated 'above-average' (average Master grade better than 2.5 or being within the best 50% of the graduates from the Master programme within the year of graduation)
- Summary of the Master Degree thesis or a brief description of the most recent scientific activity (500 words);
- A good command of the English language (IELTS grade min. 6.5, or equivalent).

For further information about DESTINY please contact: destiny EMAIL address: destiny-team@agroparistech.fr

PhD positions (m|w|d)

Apply for your PhD in DESTINY – The doctoral school of the European Bioeconomy University on the **DE**sign and **Su**STainability Assessment of **In**novative biomass production systems and value-chains in the **Bioeco**Nom**Y**

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For achieving this, we offer a multi-disciplinary curriculum to equip the 15 Doctoral Candidates with the knowledge and skills need to become leading experts of Europe's sustainable bioeconomy transition. The research programme is at the crossroads between and targets the agricultural and forestry sectors, the bioeconomy industry, academia, consultancies and governments.

PhD research topic

Early-stage evaluation of bio-based production chains

(reference code: DESTINY-DC4.4)

The doctoral candidate will research at Wageningen University and Research (Wageningen, the Netherlands) and at BOKU University (Vienna, Austria) on the following research project.

Specific objective of the PhD research project

Advance the sustainability assessment of novel biobased production chains, such as biorefineries, by:

- **Developing a methodology** for early assessment of bio-based chains that integrates LCA with process systems engineering and operations research based models.
- **Understanding how biobased design variables influence the environmental sustainability (like, biomass feedstock, cultivation conditions, product choice, processing technology, supply chain design).**
- providing **preliminary indication of the LCA results of integrated chains at an early stage of development.**

The method will be illustrated with biobased production chains studied in the DESTINY project.

Conditions and salary

After successful completion of the PhD programme, the doctoral candidate will receive a PhD double degree from both universities and an additional certificate from the EBU DESTINY network as diploma supplement.

Extent of employment: Full time

Duration of employment: 48 months

Salary: Wageningen University & Research offers excellent terms of employment. A few highlights from our Collective Labour Agreement include:

- Partially paid parental leave;
- working hours that can be discussed and arranged so that they allow for the best possible work-life balance;
- the option to accrue additional compensation / holiday hours by working more, up to 40 hours per week;
- there is a strong focus on vitality and you can make use of the sports facilities available on campus for a small fee;
- a fixed December bonus of 8.3%;
- excellent pension scheme.

In addition to these first-rate employee benefits, you will receive a fully funded PhD position and you will be offered a course program tailored to your needs and the research team.

The gross salary for the first year is € 2.770 - per month rising to € 3.539,- in the fourth year in according to the Collective Labour Agreements for Dutch Universities (CAO-NU) (scale P). This is based on a full-time working week of 38 hours. We offer a temporary contract for 18 months which will be extended for the duration of the project if you perform well.

All DCs will have an office workspace and all facilities for their research project.

For questions on the thesis topic please contact:

Dr. ir. Ellen Slegers, ellen.slegers@wur.nl

Supervision and training

- Supervision by leading experts in a Thesis Advisory Committee in a collaborative mentoring programme;
- Network-wide training events: three research schools and four workshops;
- Dissemination and outreach activities (e.g. attend scientific conferences);
- A tailor-made career development plan;
- Guidance and compliance with [The European Charter for Researchers](#);
- One secondments at:
 - BOKU University (Vienna, Austria) for 9 months.

Your qualification and experience

- Graduation in a discipline related to biobased engineering, chemical engineering, or similar focussed on developing process models with a systems analysis perspective (Bologna agreement-compliant degree on Master level required);
- Eagerness to further develop methods enabling prospective Life-cycle sustainability assessment;
- Interest in biobased value chains;
- Ability to work on and solve problems independently and well-structured;
- Good communication skills and interest on working together with people from other scientific disciplines (multi-disciplinary projects);
- For this position your command of the English language is expected to be at C1 level (recent proof required). More information can be found [here](#)
- Willingness to travel.

Eligibility

The doctoral candidate must comply with the following criteria:

- not have resided or carried out their main activity (e.g. studies) in the country of the recruiting beneficiary for more than 12 months in the past 36 months before recruitment;

- not be in possession of a doctoral degree;
- become enrolled in the doctoral programme leading to the award of a doctoral degree at the first supervising university and, within one year, become enrolled in the doctoral programme leading to the award of a doctoral degree at the second supervising university;
- work exclusively and full time for the PhD research project.

Assessment criteria

The 2-step selection process will be based on the merits providing equal opportunity and will be in agreement with the [European Code of Conduct for the Recruitment of Researchers](#).

In the **first step**, applications will be evaluated according to the following criteria:

- scientific quality of the applicant's CV and educational record;
- expected individual impact and benefit to the fellow and to the project;
- ability to collaborate and communicate;
- previous experience in the subject of doctoral research project.

In the **second step**, the shortlisted candidates will be invited for an (online) interview with the Thesis Advisory Committee. Subsequently, the candidates will be notified of the outcome.

Starting Date

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Doctoral candidates may start working on their projects as early as September 2024 and in December 2024 at the latest.

Apply now

You can **apply** for a maximum of three PhD positions within DESTINY by submitting the following documents **until 11th March 2024** to destiny-team@agroparistech.fr

- Up to date CV including details of education/qualifications, work experience and publications;
- Copy of a valid ID/Passport;
- Letter of motivation your research career goals, skills and experience with respect to the PhD research project (max. 1 page);
- For this position your command of the English language is expected to be at C1 level (recent proof required). More information can be found [here](#).

For further information about DESTINY please contact:
destiny-team@agroparistech.fr

PhD positions (m|w|d)

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PhD research topic

Assessment of the acceptance of novel sustainable intensification approaches and of their environmental impacts

(reference code: DESTINY-DC5.1)

The doctoral candidate will research at University of Hohenheim (Stuttgart, Germany) and Wageningen University (Wageningen, Netherlands).

Specific objective of the PhD research project

Assessing novel sustainable intensification approaches that lead to a significant reduction of environmental impacts, through:

- the **collaboration with DC 3.1** (Designing concepts for sustainable intensification) **and 3.3** (Functionalities of agricultural waste streams to redesign crops),
- the **life-cycle assessment (LCA) of environmental impacts** of selected SI approaches developed in this PhD project and in the projects 3.1 and 3.3,
- **prospective LCA** including upscaling methods such as process simulation and selection of background data that reflect expected economic developments **to account for limited data availability** of novel SI approaches.

Conditions and salary

After successful completion of the 3-year PhD programme, the doctoral candidate will receive a PhD double degree from both universities and an additional certificate from the EBU DESTINY network as diploma supplement.

Extent of employment: Full time

Duration of employment: Limited to 36 months (+12 months for WU doctorate)

Salary: Grant provided by the Marie Skłodowska-Curie Action Joint Doctoral Network:

Living allowance (gross): 3342.20€ per month ^a	Annual gross salary:
Mobility allowance: 600.00€ per month	47,306.40€
(Family allowance: 660.00€ per month) ^b	+ family allowance, if applicable

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All DCs will have an office workspace and all facilities for their research project.

For questions on the thesis topic please contact:

Prof. Dr.Iris Lewandowski | iris_lewandowski@uni-hohenheim.de

Supervision and training

- Supervision by leading experts in a Thesis Advisory Committee in a collaborative mentoring programme;
- Network-wide training events: three research schools and four workshops;
- Dissemination and outreach activities (e.g. attend scientific conferences);
- A tailor-made career development plan;
- Guidance and compliance with [The European Charter for Researchers](#);
- Two secondments at:
 - Wageningen University (Wageningen, The Netherlands);
 - Hochschule Geisenheim University (Geisenheim, Germany).

Your qualification and experience

- Graduation in a discipline related to agriculture, sustainability management, industrial ecology, bioeconomy (Master degree required);
- Profound understanding of agricultural systems, processes and management,
- Experience with life-cycle sustainability assessment and applied software;
- Strong interest to work in an inter- and transdisciplinary research environment within a Europe-wide network;
- Ability to work on and solve problems independently and well-structured;
- Ability to write scientific publications;
- Team spirit, enthusiasm, creativity and willingness to travel;
- Proficiency in written and spoken English (proof required), German is a plus.

Eligibility

The doctoral candidate must comply with the following criteria:

- not have resided or carried out their main activity (e.g. studies) in the country of the recruiting beneficiary for more than 12 months in the past 36 months before recruitment;
- not be in possession of a doctoral degree;
- become enrolled in the doctoral programme leading to the award of a doctoral degree at the first supervising university and, within one year, become enrolled in the doctoral programme leading to the award of a doctoral degree at the second supervising university;
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- Academic Transcript of Records proofing the candidate to have graduated 'above-average' (average Master grade 2.5 or better in the German grading system or being within the best 50% of the graduates from the Master programme within the year of graduation)
- Summary of the Master Degree thesis or a brief description of the most recent scientific activity (max. 500 words).
- Proof of English language (Mother tongue, completion of English Master programme, English test *)

* TOEFL Internet-based-test (90); IELTS Academic (6,5); Cambridge EFL-Exam (CAE); Cambridge Business English Certificate BEC (BEC Higher); London Chamber of Commerce LCCI Examinations Board (Level 3, Distinction of Credit); TELC / Certificate in English (B2, minimum good); Trinity Certificates / ISE (ISE III); UNlcert II English (without grades); ALTE (4).



For further information about DESTINY please contact:

destiny-team@agroparistech.fr



PhD positions (m|w|d)

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The EBU's joint doctoral network DESTINY is a Horizon Europe Marie Skłodowska-Curie Action and offers a total number of 15 fully funded PhD positions in an inter- and transdisciplinary research and education programme.

Six leading universities in bioeconomy research and training collaborate since 2019 to educate a new generation of truly European experts, fostering rigorous, relevant and interdisciplinary research developing solutions for the challenges of the 21st century.



DESTINY will address the transition from a fossil-based towards a biobased economy by developing novel methods and tools to optimise biomass production systems, develop novel biobased value chains and assess their sustainability holistically.

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For achieving this, we offer a multi-disciplinary curriculum to equip the 15 Doctoral Candidates with the knowledge and skills needed to become leading experts of Europe's sustainable bioeconomy transition. The research programme is at the crossroads between and targets the agricultural and forestry sectors, the bioeconomy industry, academia, consultancies and governments.

PhD research topic

Augmented Reality for Biodiversity valuation in grassland production systems

(reference code: DESTINY-DC5.2)

The doctoral candidate will research at University of Hohenheim (Stuttgart, Germany) and at Institut des sciences et industries du vivant et de l'environnement AgroParisTech (Paris, France) on the following research project.

Specific objective of the PhD research project

Identify feasible strategies and methods on how Augmented Reality and related technologies can be operationalized for Biodiversity measurement and valuation in grassland-based production systems. This will help to establish

- Augmented Reality as a method for market-based biodiversity valuation.
- Project results will **inform** scientists, engineers and **decision makers in grassland-based value chains** about feasible directions for innovations at the nexus between Biodiversity and grassland-based food production.
- First estimates of overall **market potential** will be generated and
- suitable technical solutions will be identified.

Conditions and salary

After successful completion of the 3-year PhD programme, the doctoral candidate will receive a PhD double degree from both universities and an additional certificate from the EBU DESTINY network as diploma supplement.

Extent of employment: Full time

Duration of employment: Limited to 36 months

Salary: Grant provided by the Marie Skłodowska-Curie Action Joint Doctoral Network:

Living allowance (gross): 3342.20€ per month ^a	Annual gross salary:
Mobility allowance: 600.00€ per month	47,306.40€
(Family allowance: 660.00€ per month) ^b	+ family allowance, if applicable

^a Country coefficient corrected GROSS amount paid by the European Research Executive Agency (REA) to the recruiting university. The actual net salary will depend on the national taxation and social security coverage.

^b Only applicable to doctoral candidates having (or acquiring) family obligations during the PhD programme in form of persons linked to them by (i) marriage or a relationship with equivalent status recognized by national legislation, or (ii) dependent children who are being maintained by them) during the action duration.

All DCs will have an office workspace and all facilities for their research project.

For questions on the thesis topic please contact: Prof. Dr. Sebastian Hess |

s.hess@uni-hohenheim.de

Supervision and training

- Supervision by leading experts in a Thesis Advisory Committee in a collaborative mentoring programme;
- Network-wide training events: three research schools and four workshops;
- Dissemination and outreach activities (e.g. attend scientific conferences);
- A tailor-made career development plan;
- Guidance and compliance with [The European Charter for Researchers](#);
- Two secondments at:
 - Fraunhofer Institute for Computer Graphics Research (IGD) (Darmstadt, Germany);
 - Institut des sciences et industries du vivant et de l'environnement AgroParisTech (Paliseau, France).

Your qualification and experience

- Graduation in a discipline related to agriculture, forestry, sustainability, Bioeconomy with an emphasis on economics, social sciences or marketing (Master degree required);
- Profound understanding of biomass supply systems and biobased value chains, especially grasslands and/or biodiversity;
- Experience and/or interest in virtual- and augmented reality and related technologies;
- Strong interest to work in an inter- and transdisciplinary research environment within a Europe-wide network;
- Ability to work on and solve problems independently and well-structured;
- Team spirit, enthusiasm, creativity and willingness to travel;
- Proficiency in written and spoken English (proof required), German and French are a plus.

Eligibility

The doctoral candidate must comply with the following criteria:

- not have resided or carried out their main activity (e.g. studies) in the country of the recruiting beneficiary for more than 12 months in the past 36 months before recruitment;
- not be in possession of a doctoral degree;
- become enrolled in the doctoral programme leading to the award of a doctoral degree at the first supervising university and, within one year, become enrolled in the doctoral programme leading to the award of a doctoral degree at the second supervising university;
- work exclusively and full time for the PhD research project.

Assessment criteria

The 2-step selection process will be based on the merits providing equal opportunity and will be in agreement with the [European Code of Conduct for the Recruitment of Researchers](#).

In the **first step**, applications will be evaluated according to the following criteria:

- scientific quality of the applicant's CV and educational record;
- expected individual impact and benefit to the fellow and to the project;
- ability to collaborate and communicate;
- previous experience in the subject of doctoral research project.

In the **second step**, the shortlisted candidates will be invited for an (online) interview with the Thesis Advisory Committee. Subsequently, the candidates will be notified of the outcome.

Starting Date

The DESTINY doctoral school is planned to start on 1st January 2025 with all doctoral candidates being enrolled as PhD students at the first supervising institution. + Doctoral candidates may start working on their projects as early as September 2024 and in December 2024 at the latest.

Apply now

You can **apply** for a maximum of three PhD positions within DESTINY by submitting the following documents **until 11th March 2024** to destiny-team@agroparistech.fr

- Up to date CV including details of education/qualifications, work experience and publications;
- Copy of a valid ID/Passport;
- Letter of motivation your research career goals, skills and experience with respect to the PhD research project (max. 1 page);
- Certified copy of the Academic degree translated into English, which does formally entitle to start a PhD programme in the country in which the doctoral candidate intends to be recruited;
- Academic Transcript of Records proofing the candidate to have graduated 'above-average' (average Master grade better than 2.5 or being within the best 50% of the graduates from the Master programme within the year of graduation)
- Summary of the Master Degree thesis or a brief description of the most recent scientific activity (max. 500 words);
- Proof of English language (Mother tongue, completion of English Master programme, English test *)

* TOEFL Internet-based-test (90); IELTS Academic (6,5); Cambridge EFL-Exam (CAE); Cambridge Business English Certificate BEC (BEC Higher); London Chamber of Commerce LCCI Examinations Board (Level 3, Distinction of Credit); TELC / Certificate in English (B2, minimum good); Trinity Certificates / ISE (ISE III); UNlcert II Englisch (without grades); ALTE (4).



For further information about DESTINY please contact:
destiny-team@agroparistech.fr



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PhD research topic

Multi-criteria sustainability assessment of innovative biomass supply systems

(reference code: DESTINY-DC5.3)

The doctoral candidate will research at University of Hohenheim (Stuttgart, Germany) and at BOKU University (Vienna, Austria) on the following research project.

Specific objective of the PhD research project

Advance the sustainability assessment of biomass supply systems, including:

- the conceptualization of a **selection process for sustainability indicators**;
- the development of an **assessment framework for biomass supply systems** that integrates economic, environmental and social aspects **for improved communication with non-expert stakeholders**;
- the **application of this method** to holistically assess the sustainability of the innovative approaches and novel biomass supply systems developed by other doctoral research projects in DESTINY;

to improve the communicability of sustainability assessment results.

Conditions and salary

After successful completion of the 3-year PhD programme, the doctoral candidate will receive a PhD double degree from both universities and an additional certificate from the EBU DESTINY network as diploma supplement.

Extent of employment: Full time

Duration of employment: Limited to 36 months

Salary: Grant provided by the Marie Skłodowska-Curie Action Joint Doctoral Network:

Living allowance (gross): 3342.20€ per month ^a	Annual gross salary:
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(Family allowance: 660.00€ per month) ^b	+ family allowance, if applicable

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^b Only applicable to doctoral candidates having (or acquiring) family obligations during the PhD programme in form of persons linked to them by (i) marriage or a relationship with equivalent status recognized by national legislation, or (ii) dependent children who are being maintained by them) during the action duration.

All DCs will have an office workspace and all facilities for their research project.

For questions on the thesis topic please contact:

Prof. Dr. Iris Lewandowski | iris.lewandowski@uni-hohenheim.de

Supervision and training

- Supervision by leading experts in a Thesis Advisory Committee in a collaborative mentoring programme;
- Network-wide training events: three research schools and four workshops;
- Dissemination and outreach activities (e.g. attend scientific conferences);
- A tailor-made career development plan;
- Guidance and compliance with [The European Charter for Researchers](#);
- Two secondments at:
 - Institut für Energie- und Umweltforschung (ifeu) gGmbH (Heidelberg, Germany);
 - BOKU University (Vienna, Austria).

Your qualification and experience

- Graduation in a discipline related to agriculture, forestry, sustainability, bioeconomy (Master degree required);
- Profound understanding of biomass supply systems and biobased value chains;
- Experience with Life-cycle sustainability assessment and applied software;
- Strong interest to work in an inter- and transdisciplinary research environment within a Europe-wide network;
- Ability to work on and solve problems independently and well-structured;
- Ability to write scientific publications;
- Team spirit, enthusiasm, creativity and willingness to travel;
- Proficiency in written and spoken English (proof required), German is a plus.

Eligibility

The doctoral candidate must comply with the following criteria:

- not have resided or carried out their main activity (e.g. studies) in the country of the recruiting beneficiary for more than 12 months in the past 36 months before recruitment;
- not be in possession of a doctoral degree;
- become enrolled in the doctoral programme leading to the award of a doctoral degree at the first supervising university and, within one year, become enrolled in the doctoral programme leading to the award of a doctoral degree at the second supervising university;
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Assessment criteria

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- previous experience in the subject of doctoral research project.

In the **second step**, the shortlisted candidates will be invited for an (online) interview with the Thesis Advisory Committee. Subsequently, the candidates will be notified of the outcome.

Starting Date

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- Certified copy of the Academic degree translated into English, which does formally entitle to start a PhD programme in the country in which the doctoral candidate intends to be recruited;
- Academic Transcript of Records proofing the candidate to have graduated 'above-average' (average Master grade 2.5 or better in the German grading system or being within the best 50% of the graduates from the Master programme within the year of graduation)
- Summary of the Master Degree thesis or a brief description of the most recent scientific activity (max. 500 words);
- Proof of English language (Mother tongue, completion of English Master programme, English test *)

* TOEFL Internet-based-test (90); IELTS Academic (6,5); Cambridge EFL-Exam (CAE); Cambridge Business English Certificate BEC (BEC Higher); London Chamber of Commerce LCCI Examinations Board (Level 3, Distinction of Credit); TELC / Certificate in English (B2, minimum good); Trinity Certificates / ISE (ISE III); UNlcert II English (without grades); ALTE (4).

For further information about DESTINY please contact:

destiny-team@agroparistech.fr



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PhD research topic

Comprehensive top-down ecological sustainability assessment of biomass potentials in a bioeconomy

(reference code: DESTINY-DC5.4)

The doctoral candidate will research at BOKU University (Vienna, Austria) and at the National Institute of Technology for Life, Food, and Environmental Sciences - AgroParisTech (Paris, France) on the following research project.

Specific objective of the PhD research project

- Further **developing and implementing top-down models to assess biophysical potentials of biomass provision for Europe** and their contribution to meeting human needs for food, fiber and energy.
- **Analyzing the influence of key dynamics**, including the impacts of climate change, technological advancements, food and land demand, agricultural yields, among others, **on sustainable biomass potentials** at high spatial detail.
- **Quantifying emerging trade-offs** between different ecological dimensions (Carbon stocks and flows, biodiversity, etc.) within the context of the food and land-use system.
- **Estimate the environmental costs** associated with global biomass provision and substitution potentials and **assess scale-dependencies**.

Conditions and salary

After successful completion of the 3-year PhD programme, the doctoral candidate will receive a PhD double degree from both universities and an additional certificate from the EBU DESTINY network as diploma supplement.

Extent of employment: Full time

Duration of employment: Limited to 36 months

Salary: Grant provided by the Marie Skłodowska-Curie Action Joint Doctoral Network:

Living allowance

(gross; pred-doc level): € 5409,62 per month ^a

Mobility allowance: 600.00€ per month

Family allowance: 660.00€ per month) ^b

Annual gross salary:

72,115.44€

+ family allowance, if applicable

^a The actual net salary will depend on the national taxation and social security coverage.

^b Only applicable to doctoral candidates having (or acquiring) family obligations during the PhD programme in form of persons linked to them by (i) marriage or a relationship with equivalent status recognized by national legislation, or (ii) dependent children who are being maintained by them) during the action duration.

All DCs will have an office workspace and all facilities for their research project.

For questions on the thesis topic please contact:

Assoc. Prof. Dr. Karlheinz Erb | karlheinz.erb@boku.ac.at

Supervision and training

- Supervision by leading experts in a Thesis Advisory Committee in a collaborative mentoring programme;
- Network-wide training events: three research schools and four workshops;
- Dissemination and outreach activities (e.g. attend scientific conferences);
- A tailor-made career development plan;
- Guidance and compliance with [The European Charter for Researchers](#);
- One secondment of 10 months at
 - National Institute of Technology for Life, Food, and Environmental Sciences - AgroParisTech (Paris, France)

Your qualification and experience

- Graduation in a discipline related to agriculture, forestry, sustainability, bioeconomy (Master degree required);
- Profound understanding of biomass supply systems and biobased value chains;
- Strong interest to work in an inter- and transdisciplinary research environment within a Europe-wide network;
- Ability to work on and solve problems independently and well-structured;
- Team spirit, enthusiasm, creativity and willingness to travel;
- Proficiency in written and spoken English (proof required).

Eligibility

The doctoral candidate must comply with the following criteria:

- not have resided or carried out their main activity (e.g. studies) in the country of the recruiting beneficiary for more than 12 months in the past 36 months before recruitment;
- not be in possession of a doctoral degree;
- become enrolled in the doctoral programme leading to the award of a doctoral degree at the first supervising university and, within one year, become enrolled in the doctoral programme leading to the award of a doctoral degree at the second supervising university;
- work exclusively and full time for the PhD research project.

Assessment criteria

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- ability to collaborate and communicate;
- previous experience in the subject of doctoral research project.

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Starting Date

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Up to date CV including details of education/qualifications, work experience and publications;

- Copy of a valid ID/Passport;
- Letter of motivation your research career goals, skills and experience with respect to the PhD research project (max. 1 page);
- Certified copy of the Academic degree translated into English, which does formally entitle to start a PhD programme in the country in which the doctoral candidate intends to be recruited;
- Certified academic Transcript of Records
- Summary of the Master Degree thesis or a brief description of the most recent scientific activity (max. 500 words);
- Proof of English language (Mother tongue, completion of English Master programme, English test *)

* TOEFL Internet-based-test (90); IELTS Academic (6,5); Cambridge EFL-Exam (CAE); Cambridge Business English Certificate BEC (BEC Higher); London Chamber of Commerce LCCI Examinations Board (Level 3, Distinction of Credit); TELC / Certificate in English (B2, minimum good); Trinity Certificates / ISE (ISE III); UNICert II Englisch (without grades); ALTE (4).

For further information about DESTINY please contact:

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PhD research topic

Comparative analysis of the governance solutions for regional bioeconomy systems and the identification of innovative solutions

(reference code: DESTINY-DC6.1)

The doctoral candidate will research at University of Bologna (Bologna, Italy) and at University of Hohenheim (Stuttgart, Germany) and at Italtiotec (Milano, Italy) on the following research project.

Specific objective of the PhD research project

Develop a comparison of different governance approaches to bioeconomy systems based on countries involved in the project, in particular using Italy and Germany as case studies. The analysis will be based on an **original framework and primary data collected** during the project and will focus, on innovation systems and biomass production. Expected results include:

- a) an **assessment framework**;
- b) **description and evolution of different systems** based on the framework;
- c) a **performance analysis** under different context conditions;
- d) diagnostics of **suitability of different governance solutions for different Bioeconomy systems**, focusing on biomass production and the governance of Bioeconomy innovation systems.

Conditions and salary

After successful completion of the 3-year PhD programme, the doctoral candidate will receive a PhD double degree from both universities and an additional certificate from the EBU DESTINY network as diploma supplement.

Extent of employment: **Full time**

Duration of employment: **Limited to 36 months**

Salary: Grant provided by the Marie Skłodowska-Curie Action Joint Doctoral Network:

Living allowance (gross): 3311.60€ per month ^a	Annual gross salary:
Mobility allowance: 600.00€ per month	46,939.20€
(Family allowance: 660.00€ per month) ^b	+ family allowance, if applicable

^a Country coefficient corrected GROSS amount paid by the European Research Executive Agency (REA) to the recruiting university. The actual net salary will depend on the national taxation and social security coverage.

^b Only applicable to doctoral candidates having (or acquiring) family obligations during the PhD programme in form of persons linked to them by (i) marriage or a relationship with equivalent status recognized by national legislation, or (ii) dependent children who are being maintained by them) during the action duration.

All DCs will have an office workspace and all facilities for their research project. For questions on the thesis topic please contact: Prof. Dr. Davide Viaggi | davide.viaggi@unibo.it

Supervision and training

- Supervision by leading experts in a Thesis Advisory Committee in a collaborative mentoring programme;
- Network-wide training events: three research schools and four workshops;
- Dissemination and outreach activities (e.g. attend scientific conferences);
- A tailor-made career development plan;
- Guidance and compliance with [The European Charter for Researchers](#);
- Two secondments at:
 - University of Hohenheim (Stuttgart, Germany)
 - Italtotec (Milano, Italy)

Your qualification and experience

- Graduation in a discipline related to agriculture, forestry, sustainability, bioeconomy (Master degree required);
- Profound understanding of biomass supply systems and biobased value chains;
- Experience with Life-cycle sustainability assessment and applied software's;
- Strong interest to work in an inter- and transdisciplinary research environment within a Europe-wide network;
- Ability to work on and solve problems independently and well-structured;
- Team spirit, enthusiasm, creativity and willingness to travel;
- Proficiency in written and spoken English (proof required).

Eligibility

The doctoral candidate must comply with the following criteria:

- not have resided or carried out their main activity (e.g. studies) in the country of the recruiting beneficiary for more than 12 months in the past 36 months before recruitment;
- not be in possession of a doctoral degree;
- become enrolled in the doctoral programme leading to the award of a doctoral degree at the first supervising university and, within one year, become enrolled in the doctoral programme leading to the award of a doctoral degree at the second supervising university;
- work exclusively and full time for the PhD research project.

Assessment criteria

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- ability to collaborate and communicate;
- previous experience in the subject of doctoral research project.

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Starting Date

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- Copy of a valid ID/Passport;
- Letter of motivation including your research career goals, skills and experience with respect to the PhD research project (max. 1 page);
- Summary of the Master Degree thesis or a brief description of the most recent scientific activity (max. 500 words);
- Proof of English language (Mother tongue, completion of English Master programme, English test*).

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For further information about DESTINY please contact: EMAIL address:

distal.destiny-team@unibo.it

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PhD research topic

Analysis and simulation of innovative policy instruments to promote sustainable biomass supply

(reference code: DESTINY-DC6.2)

The doctoral candidate will research at AgroParisTech-Université Paris-Saclay (Palaiseau, France) and at Università di Bologna (Bologna, Italy) on the following research project.

The specific objective of the PhD research project

Assess the performance of innovative policy instruments and design options to promote sustainable biomass production and supply through simulation and impact analysis:

- Model a company's investment in the biomass sector, considering the costs, benefits, and incentives involved.
- Examine the impact of current policies that encourage investment in biomass and their interaction with forestry and agricultural policies.
- Quantify the impact of climate change on biomass supply, including potential increases in temperature.

Conditions and salary

After successfully completing the 3-year PhD programme, the doctoral candidate will receive a PhD double degree from both universities and an additional certificate from the EBU DESTINY network as a diploma supplement.

Extent of employment: Full-time

Duration of employment: Limited to 36 months

Salary: Grant provided by the Marie Skłodowska-Curie Action Joint Doctoral Network:

Living allowance (gross): 3342.20€ per month ^a	Annual gross salary:
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For questions on the thesis topic, please contact:

Assoc. Prof Caroline Orset | caroline.orset@agroparistech.fr

Supervision and training

- Supervision by leading experts in a Thesis Advisory Committee in a collaborative mentoring programme;
- Network-wide training events: three research schools and four workshops;
- Dissemination and outreach activities (e.g. attending scientific conferences);
- A tailor-made career development plan;
- Guidance and compliance with [The European Charter for Researchers](#);
- Two secondments at:
 - AgroParisTech-Université Paris-Saclay (Palaiseau, France);
 - Università di Bologna (Bologna, Italy).

Your qualification and experience

- Graduation in economics, in particular, related to agriculture, forestry, sustainability, or bioeconomy (Master degree required), and in agricultural science with a specialisation in economics;
- Experience with applied software;
- Strong interest to work in an inter- and transdisciplinary research environment within a Europe-wide network;
- Ability to work on and solve problems independently and well-structured;
- Team spirit, enthusiasm, creativity and willingness to travel;
- Proficiency in written and spoken English (proof required), French and Italian are a plus.

Eligibility

The doctoral candidate must comply with the following criteria:

- not have resided or carried out their main activity (e.g. studies) in the country of the recruiting beneficiary for more than 12 months in the past 36 months before recruitment;
- not be in possession of a doctoral degree;
- become enrolled in the doctoral programme leading to the award of a doctoral degree at the first supervising university and, within one year, become enrolled in the doctoral programme leading to the award of a doctoral degree at the second supervising university;
- work exclusively and full-time for the PhD research project.

Assessment criteria

The 2-step selection process will be based on the merits providing equal opportunity and will be in agreement with the [European Code of Conduct for the Recruitment of Researchers](#).

In the **first step**, applications will be evaluated according to the following criteria:

- scientific quality of the applicant's CV and educational record;
- expected individual impact and benefit to the fellow and to the project;
- ability to collaborate and communicate;
- previous experience in the subject of doctoral research project.

In the **second step**, the shortlisted candidates will be invited for an (online) interview with the Thesis Advisory Committee. Subsequently, the candidates will be notified of the outcome.

Starting Date

The DESTINY doctoral school is planned to start on 1st January 2025 with all doctoral candidates being enrolled as PhD students at the first supervising institution.

Doctoral candidates may start working on their projects as early as September 2024 and in December 2024 at the latest.

Apply now

You can **apply** for a maximum of three PhD positions within DESTINY by submitting the following documents **until 11th March 2024** to destiny-team@agroparistech.fr

- Up-to-date CV including details of education/qualifications, work experience and publications;
- Copy of a valid ID/Passport;
- Letter of motivation your research career goals, skills and experience with respect to the PhD research project (max. 1 page);
- Academic Transcript of Records proofing the candidate to have graduated 'above-average' (average Master grade better than 2.5 or being within the best 50% of the graduates from the Master programme within the year of graduation)
- Summary of the Master's Degree thesis or a brief description of the most recent scientific activity (max. 500 words);
- Proof of English language (Mother tongue, completion of English Master programme, English test *)

* TOEFL Internet-based-test (90); IELTS Academic (6,5); Cambridge EFL-Exam (CAE); Cambridge Business English Certificate BEC (BEC Higher); London Chamber of Commerce LCCI Examinations Board (Level 3, Distinction of Credit); TELC / Certificate in English (B2, minimum good); Trinity Certificates / ISE (ISE III); UNICert II Englisch (without grades); ALTE (4).

For further information about DESTINY please contact:

destiny-team@agroparistech.fr

PhD positions (m|w|d)

Apply for your PhD in DESTINY – The doctoral school of the European Bioeconomy University (EBU) on the DEsign and SuSTainability Assessment of Innovative biomass production systems and value-chains in the BioecoNomY

The EBUs' joint doctoral network DESTINY is a Horizon Europe Marie Skłodowska-Curie Action and offers a total number of 15 fully funded PhD positions in an inter- and transdisciplinary research and education programme.

Six leading universities in bioeconomy research and training collaborate since 2019 to educate a new generation of truly European experts, fostering rigorous, relevant and interdisciplinary research developing solutions for the challenges of the 21st century.



DESTINY will address the transition from a fossil-based towards a biobased economy by developing novel methods and tools to optimise biomass production systems, develop novel biobased value chains and assess their sustainability holistically.

We cover a number of disciplines and sectors from agronomy and engineering to economics, political and social sciences, to create a novel type of scientist: the bioeconomist.

For achieving this, we offer a multi-disciplinary curriculum to equip the 15 Doctoral Candidates with the knowledge and skills needed to become leading experts of Europe's sustainable bioeconomy transition. The research programme is at the crossroads between and targets the agricultural and forestry sectors, the bioeconomy industry, academia, consultancies and governments.

PhD research topic

Agricultural biomass production management in contrasted European territories

(reference code: DESTINY-DC6.3)

The doctoral candidate will research at the National Institute of Technology for Life, Food, and Environmental Sciences – AgroParisTech (Paris-Saclay, France) and BOKU University (Vienna, Austria) on the following research project.

Specific objective of the PhD research project

The research will deal with **agricultural biomass production management in contrasted European territories**: impacts on territorial biomass production systems sustainability

- To **understand how an improved socio-ecosystem managing** of the territorial agricultural biomass production **is able to evolve in the light of the increasing request of the bio-resources industrial sector**.
- To **adapt and/or create methods** so that territorial and industrial **stakeholders will be involved to design innovative interactions** between the different steps of the chains to **increase their capabilities** on their socio-ecosystem dynamics.

Conditions and salary

After successful completion of the 3-year PhD programme, the doctoral candidate will receive a PhD double degree from both universities and an additional certificate from the EBU DESTINY network as diploma supplement.

Extent of employment: Full time

Duration of employment: Limited to 36 months

Salary: Grant provided by the Marie Skłodowska-Curie Action Joint Doctoral Network:

Living allowance 3,957.60€ per month ^a

Mobility allowance: 600.00€ per month

Family allowance: 600.00€ per month ^b

Annual gross salary
(including all social contributions):
54,691.20 €
+ family allowance, if applicable

^a Country coefficient corrected GROSS amount paid by the European Research Executive Agency (REA) to the recruiting university. The actual net salary will depend on the national taxation and social security coverage.

^b Only applicable to doctoral candidates having (or acquiring) family obligations during the PhD programme in form of persons linked to them by (i) marriage or a relationship with equivalent status recognized by national legislation, or (ii) dependent children who are being maintained by them) during the action duration.

All DCs will have an office workspace and all facilities for their research project.

For questions on the thesis topic please contact

Prof. Dr. Philippe Lescoat | philippe.lescoat@agroparistech.fr

Supervision and training

- Supervision by leading experts in a Thesis Advisory Committee in a collaborative mentoring programme;
- Network-wide training events: three research schools and four workshops;
- Dissemination and outreach activities (e.g. attend scientific conferences);
- A tailor-made career development plan;
- Guidance and compliance with [The European Charter for Researchers](#);
 - One secondment of 9 months at BOKU University (Vienna, Austria)

Your qualification and experience

- Graduation in a discipline related to agriculture, sustainability, bioeconomy (Master degree required);
- Profound understanding of agriculture, biomass supply systems and biobased value chains;
- Strong interest to work in an inter- and transdisciplinary research environment within a Europe-wide network;
- Ability to work on and solve problems independently and well-structured;
- Ability to work on site with stakeholders from the biomass value chains and associated territories
- Ability to deal with large sets of qualitative data (obtained from numerous stakeholders interviews done mostly by yourself) and quantitative data (from heterogeneous origins) leading to utilization of various statistical tools and a good capacity of scientific writing
- Team spirit, enthusiasm, creativity and willingness to travel;
- Proficiency in written and spoken English (proof required) and French, German is a plus.

Eligibility

The doctoral candidate must comply with the following criteria:

- not have resided or carried out their main activity (e.g. studies) in the country of the recruiting beneficiary for more than 12 months in the past 36 months before recruitment;
- not be in possession of a doctoral degree;
- become enrolled in the doctoral programme leading to the award of a doctoral degree at the first supervising university and, within one year, become enrolled in the doctoral programme leading to the award of a doctoral degree at the second supervising university;
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- Copy of a valid ID/Passport;
- Letter of motivation your research career goals, skills and experience with respect to the PhD research project (max. 1 page);
- Certified copy of the Academic degree translated into English, which does formally entitle to start a PhD programme in the country in which the doctoral candidate intends to be recruited;
- Academic Transcript of Records
- Summary of the Master Degree thesis or a brief description of the most recent scientific activity (max. 500 words);
- Proof of English language (Mother tongue, completion of English Master programme, English test *)

* TOEFL Internet-based-test (90); IELTS Academic (6,5); Cambridge EFL-Exam (CAE); Cambridge Business English Certificate BEC (BEC Higher); London Chamber of Commerce LCCI Examinations Board (Level 3, Distinction of Credit); TELC / Certificate in English (B2, minimum good); Trinity Certificates / ISE (ISE III); UNlcert II Englisch (without grades); ALTE (4).

For further information about DESTINY please contact:

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