**Магистерская программа в области "ГИС и наблюдения за Землей для экологического моделирования и управления".**

<https://www.gem-msc.eu/>

Это совместная магистерская программа Эразмус Мундус (EMJMD). Благодаря финансированию программы "Эразмус+", начиная с сентября 2021 г., мы можем предложить 60 полных стипендий Магистратуры по четырем направлениям. Студенты с другими стипендиями или альтернативными источниками финансирования также горячо приветствуются. Ссылайтесь на стипендию и финансы для получения подробной информации.

GEM - престижная, интегрированная, международная программа обучения, совместно осуществляемая международным консорциумом четырех высших учебных заведений. Каждый партнер привносит свой опыт и знания по различным аспектам взаимодействия человека и окружающей среды с прикладными геопространственными науками:

- управление природными ресурсами в ИТК-Университете Твенте, Нидерланды (и координационный партнер ГЕМ).

- Экосистемы и окружающая среда в Лундском университете, Швеция

- Сельское и лесное хозяйство в Лувенском католическом университете, Бельгия.

- Социально-экологические системы и городское планирование в Тартуском университете, Эстония

GEM is a two-year MSc in “Geo-information Science and Earth Observation for Environmental Modelling and Management”. GEM is an Erasmus Mundus Joint Masters Degree Programme (EMJMD). Thanks to funding from the Erasmus+ programme, we can offer 60 full MSc scholarships across four intakes, starting in September 2021. Students with other scholarships or alternative sources of funding are also warmly welcomed. Ser the scholarship and finances link for details.

GEM is a prestigious, integrated, international study programme, jointly delivered by an international consortium of four higher education institutions. Each partner brings expertise in different aspects of human-environment interaction challenges with applied geospatial science:

* Natural resources management at ITC-University of Twente, the Netherlands (and GEM coordinating partner)
* Ecosystems and the environment at Lund University, Sweden
* Agriculture and forestry at Université catholique de Louvain, Belgium
* Socio-ecological systems and urban planning at the University of Tartu, Estonia

**WHY CHOOSE GEM?**

GEM is an innovative, international education programme from four European university partners that:

* Bases its innovative teaching approaches on collaborative studies with stakeholders to address real socio-ecological challenges. As a GEM graduate, you will understand the scientific process and be able to apply it in your future career, both inside and outside academia, to meet sector skill needs.
* Makes extensive use of open-source ICT to bring diverse groups of students, staff, and stakeholders together in virtual environments for interdisciplinary learning. As a GEM graduate, you will interact with stakeholders in different sectors, and be comfortable doing so.
* Builds upon strategic partnerships between universities and industries to develop professional experience in the use of GI and EO science to address global challenges. As a GEM graduate, you will develop leadership, negotiation, networking, management, and communication skills and will be ready to act.
* Builds capacity by providing equal access to top-tier education. This diversity increases access to education and develops your language and culture skills, broadening minds to new ways of thinking.

**SCHOLARSHIP INFORMATION**

The GEM programme hasapproximately 15 full scholarships per intake from Erasmus +, but candidates may also apply for other types offunding/scholarships to enter the GEM programme. For self-funded students werefer you to the financial information mentioned below.

**ERASMUS+ SCHOLARSHIP**

If you wish to apply for an Erasmus+ (EMJMD) scholarship, please note the following:

If you apply online before **15th March 2021**, your application will automatically be considered for an Erasmus+ scholarship.

Candidates who have applied for an Erasmus+ fellowship will be provisionally notified of the outcome by **1st May 2021.**Following approval by the EU, the final outcome will be confirmed by **31st May 2021**.

*Note that Erasmus+ adhere to the following clauses regarding  their scholarship funding:*

* *The scholarship holder declares not to have benefited from a previous  EMJMD scholarship or an Erasmus Mundus Master Course/Joint Doctorate scholarship.*
* *The scholarship holders commits not to benefit from another EU funded scholarship scheme to follow the same EMJMD course and this for the entire period of the course.*
* *The financial suppport shall be repaid by the scholarship holder in case of fraud or false declaration.*
* Minimum requirements for Englishlanguage tests:

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| --- | --- |
| [British Council/IELTS](https://ielts.britishcouncil.org/CountryExamSearch.aspx) | 6.5 |
| [Paper-based TOEFL (PBT)](https://www.ets.org/toefl/pbt/register/centers_dates) | 580 |
| [Internet-based TOEFL (IBT)](https://www.ets.org/toefl/ibt/about) | 92 |
| [Cambridge Proficiency in English or Cambridge Advanced](http://www.cambridgeenglish.org/exams/proficiency/): | Grade C or above |
| University Entrance Test for Speakers of Other Languages (NEAB) | A minimum of two C grades and three higher grades |
| [GCSE English Language or Use of English](http://www.aqa.org.uk/subjects/english/gcse/english-language-4705) | Grade C or above |
| [Trinity ISE (Trinity College London Integrated Skills in English)](http://www.trinitycollege.com/site/?id=611) | ISE III |

### TRACK NAMES AND DESCRIPTIONS

**Track 1 – GEM for Urban-Rural Interactions**
University of Tartu provides geospatial analysis, basic remote sensing, Geo-information method foundation and socio-ecological/urban and planning. ITC-University of Twente provides advanced remote sensing and entrepreneurship for natural resource management. This track addresses the challenge of sustainably meeting the natural resource demands of a rapidly urbanising world.

**Track 2 – GEM for Land Use Systems**
University of Tartu provides the same first year as track one, but with year two at Université catholique de Louvain on environmental challenges related to agriculture, forestry and nature conservation in the context of climate change. This track addresses the challenge of planning and assessing the impact of land use change in a changing climate.

**Track 3 – GEM for Ecosystems & Natural Resources**
Lund University provides the foundation year in geo-informatics, including GIS/geospatial analysis, remote sensing, ecosystem modelling and dynamic process-based spatial models. ITC-University of Twente provides the second year on natural resources management including courses on rangelands, ecosystem services and conservation to address the challenge of managing and valuing natural resources to enhance the resilience of society.

**Track 4 - GEM4 Food Security**
Lund University provides the foundation year with Université catholique de Louvain hosting the specialisation year on food security challenges related to crop production, including its inter-annual variability in a context of changing climate and its environmental impacts. This track addresses the challenge of food security in the context of climate change and associated socio-environmental vulnerabilities.

**Project website**

[GEM](https://www.gem-msc.eu/)