

Full-time academic vacancy in the field of 3D Geodata

Start date: 1 September 2021

Description of the course load:

A **part-time** (40%), indivisible position in the field of **3D Geodata** within the Department of *Geography*. This post includes teaching, research and services to the Community.

Context

The digital revolution has made massive amounts of heterogeneous geodata available on unprecedented spatial, temporal and thematic scales. In particular, the volumes of 3D data resulting from various acquisition methods (laser scanning, photogrammetry, LiDAR, etc.) are expanding exponentially, calling into question current methods of managing, processing and distributing geographic information: 3D point clouds are no longer just raw data, but are becoming the structuring elements of future 3D information systems. This movement is only increasing with the multiplication of autonomous data acquisition modes and is profoundly shaping geomatics research and teaching throughout the world. The Department of Geography wishes to be part of this highly strategic area of research, which will also enable it to offer specialised teaching of a very high level.

Teaching activities:

Anticipated courses:

- GEOG0054-1 Spatial data acquisition methods - 3B Geog - 25h Th, 25h Pr, 16h other (projects or field work)
- GEOG0063-1 3D Acquisition - 2M Geom - 10h Th, 20h Pr, 4h other (projects or field work)
- GEOG0064-1 3D Recognition & Understanding - 2M Geom - 20h Th, 25h Pr
- GEOG0065-1 Immersive 3D Environment - 2M Geom - 10h Th, 15h Pr, 40h other (projects or field work)
- GEOG0068-1 Integrated project "Land surveyor" - 2M Geom - 20h Th, 5h Pr, 64h other (projects or field work)
- GEOG0053-1 Topography - Part B - 1M Geom - 10h Th, 5h Pr, 8h other (projects or field work)

Research Activities:

The candidate will be required to direct and develop research in 3D Geodata in line with the department's strategy described in the context of the post. They are also encouraged to develop collaborations with ULiège members whose research and interests are close to their own areas of expertise.

Services to of the Community:

The candidate will be required to join the Department of Geography and to participate in the various activities and missions of this Department and the Faculty.

Qualifications required / profile:

Research profile:

- Doctorate in geomatic sciences or similar, developing high-level research in the field of 3D geodata.
- The candidate must demonstrate competence in the collection, management and use of large volumes of 3D data (point clouds).
- The candidate must demonstrate competence in Geo-Data Sciences, Data Analytics and Machine Learning.
- International research experience is an asset.

Teaching:

- The candidate will have to demonstrate the ability to teach specialised subjects related to their research profile as well as basic subjects (Bachelor's level) related to 3D data acquisition.
- A good knowledge of the problems linked to the profession of land surveyor and 3D surveying techniques is a plus, without being an obligation.

Selection procedure:

The selection procedure will be in accordance with the regulations applied within the University of Liège.

Applications:

Applicants are requested to submit their applications electronically, to the following address: Postesacademiques@uliege.be with a copy to francoise.motte@uliege.be **no later than 28 February 2021.**

Required documents:

- ✓ Applications should be submitted (with a cover letter), accompanied by a complete curriculum vitae (see the procedures on the website of the Faculty of Sciences at: <https://www.sciences.uliege.be/emploi-sciences>);
- ✓ A report on past and current research activities and a research plan, including the envisaged integration within the University of Liège;
- ✓ A teaching file including a report on any prior teaching activities and a teaching plan (three pages);
- ✓ A copy of publications in digital format;

Conditions of recruitment:

The position shall be assigned either from the outset on a permanent basis or for a fixed term of four years, which may lead to the permanent appointment of the person concerned.

In the case of a four-year appointment, an evaluation of the person concerned will be carried out at the end of the third year.

- If the evaluation is negative, the person concerned will complete the four-year term but will not be able to extend it.
- If the assessment is positive, the person concerned shall be appointed on a permanent basis.

Our institutional policy is based on diversity and equal opportunities. We select candidates on the basis of their qualities whatever their age, sexual orientation, origin, beliefs, disability or nationality.

Information:

Any further information can be obtained from **Ms Françoise Motte** - tel: +32 4 366 36 52 – francoise.motte@uliege.be

Salary:

Salary scales and how they are applied are available from the human resources department of the University: **Ms Ludivine Depas** – tel.: +32 4 366 52 04 – Ludivine.Depas@uliege.be