Centrale Nantes is a leading engineering school that graduates engineers, masters students and doctoral candidates from academic programs based on the most up-to-date developments in science and technology and the best practices in management.

As a member of the Écoles Centrales Group (Lille, Lyon, Marseille, Nantes and Paris), our school provides top-quality teaching for highly selected students.

A public institution under the supervision of the French Ministry of Higher Education, Research and Innovation, Centrale Nantes has over 2,250 students, 500 employees and 600 part-time staff.

Within the Ecole Centrale de Nantes, the Civil and Mechanical Engineering Laboratory (GeM) is a joint research unit of Nantes University, Centrale Nantes and the CNRS. Its aim is to bring together in a single laboratory all the skills of the Nantes-Saint-Nazaire metropolis, in the fields of civil engineering, mechanics of materials and processes, modeling and simulation in structural mechanics.

Project description:

As part of the Additive4Rail Programme d'Investissements d'Avenir project, we are looking for a post-doctoral fellow specializing in computer engineering or industrial computing. Attached to the Rapid Manufacturing group of the GeM laboratory at Centrale Nantes, within a team of 15 people and in an international environment, you will be responsible for making progress on tasks linked to the development of the digital chain for additive manufacturing applied to the rail sector.

Main tasks:

- Research and develop ways of tracking all the data in the digital chain, from CAD to the metrology of a part, including all the stages and data input for manufacturing and monitoring.
- Develop and implement solutions for the advanced CAD/CAM/CNC digital chain applied to additive manufacturing.
- Propose implementation methodologies
- Carry out case studies on the RMP platform's manufacturing resources
- Contribute to the group's research activities: partnership projects, reporting
- Write scientific articles
- Prepare and present results at team meetings, project-related meetings and scientific conferences.

Profile required:

Skills :

- Computer programming skills
- Industrial computing skills
- Propose and develop models
- English language skills
- CAD/CAM software skills
- Synthesis and rigor
- Knowledge of numerically controlled machine tools is a plus

<u>Relational skills :</u>

- Dealing with students
- Relations with companies
- Teamwork (open-space work)

Level required: PhD

Conditions of employment:

- 12-month fixed-term contract - open to contract and permanent employees - Full-time position - based in Nantes - Flexible working hours - Flexible work cycles (possibility of working 4.5 days) - RTT + additional vacations - Telecommuting possible - Teleworking allowance - Free parking - 75% transport reimbursement - Sustainable mobility bonus (if cycling or car-pooling)	<u>Remuneration</u>: in line with the French civil service pay scale <u>Position to be filled</u>: As soon as possible

HR contact: Lhéa FERELLEC
Manager contact: Matthieu RAUCH

To apply: please send your CV and covering letter to: candidatures@ec-nantes.fr

This advert refers to the terms 'candidate', 'engineer', 'manager', etc. These terms are to be considered as gender-neutral and should be used in both the masculine and feminine genders.

Centrale Nantes is committed to equality and diversity. *In* ***line*** *with our* ***<u>CSR commitments</u>, this job is open to all.***