

Centrale Nantes is a leading engineering school that graduates engineers, master's 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.

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

Within the École 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.

Job description :

We are looking for a Design Engineer specialized in WAAM (Wire Arc Additive Manufacturing) metal additive manufacturing processes. Reporting to the Rapid Manufacturing group in the GeM laboratory at Centrale Nantes, as part of a 15-strong team in an international environment, you will be responsible for participating in projects involving the design, simulation, manufacture and analysis of large-scale WAAM parts on the platform's machines.

Your main tasks will be to :

- Design and/or modify part geometries (CAD) to adapt them to the WAAM process
- Propose manufacturing strategies (routings)
- Generate trajectories in the CAD/CAM environment (programming, robotics)
- Prepare and implement additive manufacturing experiments on robotized cells, and produce demonstrators.
- Analyze results / characterize components produced / write associated reports, including scientific articles
- Develop the laboratory's large-scale WAAM manufacturing resources
- Contribute to the Group's research activities: partnership projects, reporting, internal and external presentation of results.

Required qualities :

Skills :

- Fluency in English
- Use of experimental resources

Required qualities :

- Working with students
- Relations with companies

- CAD design
- CAD/CAM programming, robot programming
- Synthesis and rigor
- Teamwork

Level required: Engineering or Master's degree, beginners accepted

Nature of position :

<ul style="list-style-type: none"> • 12-month fixed-term contract, with the possibility of renewal - open to contract staff and civil servants • 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-sharing) 	<p><u>Salary</u> : in line with the French civil service pay scale</p> <p><u>Position to be filled</u> : As soon as possible</p>
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Contact RH : Guéno­lée COTTINEAU

Contact Manager : Matthieu RAUCH

To candidate : Please send your resume and a cover letter to : <https://jobs.ec-nantes.fr/o/ingenieur-detudes-waam-hf-cdd-12-mois>

This advert refers to the terms 'candidate', 'engineer', 'manager', etc. These designations are to be considered beyond gender and are to be taken in both feminine and masculine forms.

Centrale de Nantes is committed to equality and diversity. In line with our CSR commitments, this job is open to all.