## UNIVERSITĕ <sup>™</sup> FRANCHE-COMTĕ

## **JOB DESCRIPTION N° 1PRCE0891A**

The audition of the candidates by the selection committee includes a professional situation simulation

Collegium	SFSPI
Composante	IUT NORD FRANCHE-COMTE
Section CNU	Sections CNU 60 or 62
Corps	MCF
Numéro national du poste	
Laboratory / type	FEMTO-ST Institute
Job profile	Civil engineering – Building science and Thermal engineering
Teaching activities	Attached to the Department of Civil Engineering and Sustainable Construction (GCCD) at the iUT NFC, the recruited individual will contribute to the following skills blocks in the GCCD bachelor's degree (BUT) program: block 1 (Develop technical solutions for part or all of a building project), block 3 (Design structures and technical equipment for construction), and block 5 (Technically manage a structure throughout its lifecycle), in both the full-time and work-study tracks. In alignment with the national GCCD program and its competency-based approach, strong interaction with various disciplines is required. Therefore, the candidate must demonstrate solid expertise in areas such as thermal engineering, materials, circular economy, environmental impacts, and especially experimental approaches. Knowledge of geotechnics would be an additional asset. Preferably from a civil engineering background, the candidate will be responsible for teaching or coordinating courses within these Competency Blocks, performing the following tasks: • Development of resources (lectures, tutorials, lab work); • Creation and implementation of integrated work-study activities (SAEs); • Recruitment and coordination of adjunct instructors (particularly industry professionals). Moreover, the recruited candidate will be involved in other educational activities, such as supporting student success (e.g., through innovative teaching methods) and facilitating students' professional integration. They will also be expected to participate in department-level tasks, supervise student projects, mentor students in internships and work-study programs, and contribute to promotional activities (forums, open days). The candidate must also be able to teach in English. International experience would be an additional advantage. <b>Position evolution</b> : In the short term, the recruited individual will be expected to take on pedagogical responsibilities within the department, such as managing one of the tracks in the BUT program or overseeing a skills block.

Contact(s)	Contact for teaching activities: Romain RICHARD,
	Chef du département GCCD (Génie Civil Construction Durable) IUT NFC,
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Research activities	The Energy department of the FEMTO-ST Institute, with about 120 people, focuses its research activities on energy conversion and management, for both thermal and electrical aspects. Research works aim to produce, manage, store and consume a cleaner, safer and more affordable energy. To contribute to removing the associated technological and scientific barriers, the department is organized around scientific axes within two teams, THERMIE and SHARPAC.
HR EXCELLENCE IN RESEARCH	The future associate professor will be assigned to the THERMIE team (Thermal, Fluid Flows, Instrumentation, and Energy Efficiency). This team, composed of approximately thirty members (faculty, engineers, and PhD students), is structured into three scientific axes: 1) Building Energy (BAT), 2) Thermal Machines and Systems (MACS), and 3) Metrology and Instrumentation for Energy (METRO). The team also contributes to the activities of the CNRS UAR FCLAB, dedicated to hydrogen-energy systems.
	The recruited associate professor will strengthen the THERMIE team in the field of thermal and fluid mechanics. He/She should have strong skills in numerical simulation (CFD) and heat transfer. Experience in experimental work will be highly valued. The research will primarily focus on applications related to building thermal systems, energy production, and efficiency in systems for industry and transportation. Research may also be linked to the hydrogen field.
	The future faculty member will be expected to participate in the development, monitoring, and execution of academic and collaborative projects at national and international levels (industry, ANR, Region, Europe, etc.). Previous experience in this area will also be highly appreciated. Furthermore, active involvement in the life of the laboratory as well as in professional associations and/or scientific bodies at the national and international levels is expected.
	The University of Franche-Comté has the HRS4R label. As such, it implements the European human resources strategy for researchers.
	Contact for research activities: François LANZETTA,
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Le président de collegium, *signature*