Postdoctoral Research Scientist
Columbia University in the City of New York

Job Title	Postdoctoral Research Scientist
Department	Department of Civil Engineering & Engineering Mechanics
Institution	Columbia University in the City of New York
	New York, New York
Date Posted	Feb. 19, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
	Post-Doc
Academic Field(s)	Human Factors Engineering/Ergonomics
	Geotechnical
	Geotechnical
	Geomatics
	Geomatics
	Food Process Engineering
	Food Process Engineering
	Ecological and Environmental
	Ecological and Environmental
	Engineering Physics
	Engineering Physics
	Engineering Mechanics
	Engineering Mechanics
	Energy Technology
	Energy Technology
	Electrical and/or Electronics
	Electrical and/or Electronics
	Education Systems & Design

Education Systems & Design
Computer Engineering
Computer Engineering
Computer Science
Computer Science
Construction Engineering/Management
Construction Engineering/Management
Civil Engineering
Civil Engineering
Chemical/Petroleum
Chemical/Petroleum
Bioengineering (all Bio-related fields)
Bioengineering (all Bio-related fields)
Architectural (Building & Construction)
Architectural (Building & Construction)
Agricultural
Agricultural
Aerospace/Aeronautical/Astronautics
Aerospace/Aeronautical/Astronautics
Engineering - Other
Material/Metallurgy
Manufacturing & Quality Engineering
Manufacturing & Quality Engineering
Industrial & Systems Engineering
Industrial & Systems Engineering
Human Factors Engineering/Ergonomics
Engineering - Other
Mechanical Engineering
Material/Metallurgy
Mechanical Engineering
Mechatronics
Mechatronics

Mining/Minerals
Mining/Minerals
Naval Architecture & Marine Engineering
Naval Architecture & Marine Engineering
Nuclear
Nuclear
Ocean Engineering
Ocean Engineering
Optics & Optical Engineering
Optics & Optical Engineering
Polymer Science
Polymer Science
Pulp & Paper Science
Pulp & Paper Science
Risk Management & Financial Engineering
Risk Management & Financial Engineering
Robotics
Robotics
Structural Engineering
Structural Engineering
Sustainable Engineering
Sustainable Engineering
Textile Engineering
Textile Engineering
Transportation Engineering
Transportation Engineering
Water Resources Engineering
Water Resources Engineering

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Apply By Email

Job Description

Immediate opening for a Postdoctoral Research Scientist with Prof. Raimondo Betti at The Fu Foundation School of Engineering & Applied Science, Department of Civil Engineering & Engineering Mechanics and Principal Investigator. The successful candidate will conduct leading-edge research in the field of Structural Health Monitoring, with particular emphasis on the use of Machine Learning algorithms for rapid damage assessment. Research topics could focus on: the definition and use of novel damage sensitive features, physics informed machine learning, transfer learning from different source domains to a target domain, unsupervised strategies for decision making, etc.. The successful candidate will have the following responsibilities:

- Conduct advanced research on the selected topic(s)
- Help with the preparation of research proposals
- Help with the supervision of PhD students

Qualifications

Ph.D. in engineering, computer science, statistics or related field; experience with signal processing, spectral analysis, time-series analysis, machine learning algorithms and the modeling and analysis of complex systems; strong publication record; proficiency with either MATLAB or Python and practical skill with both; and strong oral and written English communication skills.

EEO/AA Policy

Columbia University is an Equal Opportunity Employer / Disability / Veteran

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Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Department of Civil Engineering & Engineering Mechanics

Columbia University in the City of New York

New York, NY 10027