

Postdoc Position in Optical Metasurfaces, Nanophotonic  
Sensors  
New York University

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Posted Aug. 11, 2020, expired Dec. 11, 2020

<b>Job Title</b>	Postdoc Position in Optical Metasurfaces, Nanophotonic Sensors
<b>Department</b>	Health Technology and Engineering Institute, NYU Grossman School of Medicine <a href="https://med.nyu.edu/departments-institutes/health-technology-engineering/">https://med.nyu.edu/departments-institutes/health-technology-engineering/</a>
<b>Institution</b>	New York University New York, New York
<b>Date Posted</b>	Aug. 11, 2020
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available Immediately
<b>Job Categories</b>	Post-Doc
<b>Academic Field(s)</b>	Mechanical Engineering Material/Metallurgy Engineering Physics Electrical and/or Electronics Bioengineering (all Bio-related fields)
<b>Job Website</b>	<a href="https://www.cai-labs.com/opening">https://www.cai-labs.com/opening</a>
<b>Apply By Email</b>	<a href="mailto:haogang.cai@nyu.edu">haogang.cai@nyu.edu</a>

**Job Description**

A postdoctoral position is immediately available in the Cai Lab, part of the Health Technology and Engineering Institute (Tech4Health) at NYU Grossman School of Medicine (recently ranked # 4 in medical schools by 'U.S. News & World Report'). We build new paradigms of nanotechnology for biomedical applications, including optical metasurfaces for imaging and sensing, active tunable metasurfaces, and nano-engineered biomimetic materials. Our work has been published in high-impact

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journals including Nature Nanotechnology, Nature Materials, NPJ Comput. Mater., ACS Nano, Nano Letters, etc.

#### Who we're looking for

Candidates must have a PhD in engineering (electrical, mechanical, etc), optics, physics, materials science or an appropriate field. Those with expertise in optical metasurfaces (near infrared, visible), nanophotonic/plasmonic sensors, nanofabrication, are encouraged to apply. Those with hands-on cleanroom experience (e.g., e-beam lithography), a strong background in optics, optical experiments, and finite-difference time domain (FDTD) simulation are preferred.

We seek candidates who are strongly motivated, open-minded, and capable of both independent and collaborative research work. Demonstrated ingenuity, productivity, communication and writing skills, and an excellent record of publications is preferred.

#### How to apply

To apply, send your CV to Dr. Haogang Cai, at [haogang.cai@nyu.edu](mailto:haogang.cai@nyu.edu). Please include a detailed description of your research interests, a full list of publications, and names of at least two references. The position will remain open until filled.

#### Who we are

The Tech4Health Institute, NYU Langone Health's Institute for Health Technology and Engineering, is NYU Langone's research and development hub for new biomedical instruments and technologies. The institute is located at 433 First Avenue, part of the NYU Langone superblock in Midtown Manhattan. With state-of-the-art facilities and an advanced rapid-response engineering team, the institute connects engineers and physical scientists with clinicians and life scientists to address key unsolved problems and unmet needs in biomedicine. Immersed in the unique vibrant and innovative environment of the New York City, and one of the foremost medical schools in the world, this is an ideal place for engineering researchers to design technologies to improve human health. For more information, visit the lab website at <https://www.cai-labs.com/> and the institute website at <https://med.nyu.edu/departments-institutes/health-technology-engineering/>.

### **EEO/AA Policy**

NYU Langone Medical Center is an equal opportunity and affirmative action employer committed to diversity and inclusion in all aspects of recruiting and employment. All qualified individuals are encouraged to apply and will receive consideration without regard to race, color, gender, gender identity or expression, sexual orientation, national origin, age, religion, creed, disability, military and veteran status, genetic information or any other factor which cannot lawfully be used as a basis for an

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employment decision.

**Contact Information**

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

**Contact** Haogang Cai  
Tech4Health Institute at NYU Grossman School of  
Medicine  
New York University  
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New York, NY 10010

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