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Job Summary

Category	Research (Laboratory/Non-Laboratory)
Position	Beamline Project Engineer II / Beamline Project Engineer I (P-7/P-9)
Institution	Brookhaven National Laboratory
Region	Long Island - Suffolk
Location(s)	Upton
Type	N/A
Date Posted	11/18/2011
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Beamline Project Engineer II / Beamline Project Engineer I (P-7/P-9)

Brookhaven National Laboratory

Job ID: 15930

Location:

Brookhaven National Laboratory is a nonprofit research and development institution whose purpose is to advance ideas and knowledge through a multidisciplinary program of basic and applied research. The Photon Division of the Photon Sciences Directorate currently has a full-time opportunity for a Beamline Project Engineer.

Organization Overview:

Photon Sciences Directorate at Brookhaven National Laboratory is seeking an experienced mechanical engineer to manage and lead the engineering and development of the Hard X-ray Nanoprobe (HXN) beamline through specification, analysis, fabrication and procurement with participation of assembly, test, installation and commissioning.

Major Duties and Responsibilities:

- The main responsibilities include specification, design, analysis fabrication/procurement, testing, installation and commissioning of x-ray beamline and endstation instrumentation.
- Reporting to the Beamline Engineering Group Leader, the selected candidate will interact closely with beamline scientific and technical staff to design and build the HXN beamline and associated scientific instrumentation to support research projects at the respective endstation.

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Contact	Brookhaven National Laboratory Upton, NY 11973

Required Knowledge, Skills and Abilities:

- Requires a BS degree in mechanical engineering; (MS degree strongly preferred) and seven plus years (7+) of relevant experience.
- Substantial knowledge of mechanical design, complex instrument integration, analysis, materials and advanced manufacturing processes.
- Considerable experience in using 3-D CAD (Inventor, SolidWorks or Pro-E), drawing standards and engineering codes.
- Experience with hands - on mechanical skills
- Expertise with precision mechanical systems
- Strong communication and interpersonal skills are required for interaction with a diverse group of scientists and technical staff.
- Candidates will be required to show evidence of successfully working within a project team.

Preferred Knowledge, Skills, and Abilities:

- Expertise with at least two of the following; instrumentation and control systems, cryogenic systems and vacuum (preferably UHV) systems
- Experience with integrating commercial instrumentation and low voltage electrical control equipment (e.g. temperature controllers, motors, encoders, actuators, etc.).
- Experience with troubleshooting and maintenance of technical equipment.
- Experience working at a synchrotron facility.

Successful candidate will be placed at the P-7 or P-9 level dependent upon depth and breadth of relevant knowledge and skills.

At Brookhaven National Laboratory we believe that a comprehensive employee benefits program is an important and meaningful part of the compensation employees receive. Our benefits program includes but is not limited to:

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- Retirement Plan
- On site Child Development Center, Swimming Pool, Weight room Tennis Courts, and many other employee perks and benefits

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Brookhaven National Laboratory is an equal opportunity employer committed to building and maintaining a diverse workforce.