

Subject: NSHP News: Jun 23, 2008

The Hispanic Physicist

**A news service of the National Society of Hispanic Physicists
Please send news, letters, congratulations, announcements, or
communications to**

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<http://hispanicphysicists.org>.**

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- 1. The Principality of Monaco/ITER postdoctoral fellowships 2008
<http://www.iter.org/monaco-partnership/>**

ITER welcomes applications for the Principality of Monaco/ ITER Postdoctoral Research Fellowships which will allow recent PhD graduates to join the ITER Organization for a period up to two years.

Qualifications

Your PhD was awarded after the 1st January 2005, or you have already submitted your thesis and will have received your PhD by the date at which you take up your fellowship. You would like to carry out a research project and participate in publications of high quality journal articles in fusion science and technology.

JOIN ITER FOR A POST DOCTORAL POSITION

The principal motivation of the Research Fellowships is the development of excellence in research in fusion science and technology within the ITER framework. Brilliance and creativity, together with an understanding of the relevance of your research interests to the ITER project are required.

Topics for postdoctoral fellowships

Burning plasma physics (confinement, stability, plasma-wall interactions, control, energetic particle physics) Heating and current drive physics Superconducting magnet technology Electrical engineering Mechanical engineering/ structural analysis Electromagnetic Analysis Remote handling technology Cryogenics Thermohydraulics

Conditions for Applicants

You are a national of one of ITER parties or of the Principality of Monaco Your PhD was awarded after the 1st January 2005 or you have already submitted your thesis, and have received your PhD by the date at which you take up your fellowship.

To apply please send:

Applicants are requested to provide the following, in one document in English, mentioning ITER/ Monaco postdoctoral fellowships.

Personal history form, using the attached ITER Organization Personal History Form Curriculum Vitae List of Publications Photocopy of the last (highest academic) qualification A 500 to 1000-word "letter of motivation" on their grounds for applying to conduct research at ITER, together with their research interests Three letters of recommendation All information has to be sent in a PDF format electronically to: David.Campbell@iter.org

All applicants will receive an acknowledgment by e-mail within one week of their submission.

Time schedule 2008 postdoctoral fellowship programme:

External launch of initial competition 4 March Deadline for application 31 May Candidate interviews by 14 June Fellows normally on site 1 October Latest date for Fellows to take up award on site 1 December

2. The Caltech/MIT Laser Interferometer Gravitational-Wave Observatory seeks Systems/Network Administrator, Assistant

Salary Grade: 41, Location: LIGO Hanford Observatory, Hanford, WA 99354, Employer: Caltech, Length of term: Renewable, with an initial term of 3 years

LIGO is a premier National Science Foundation project at the leading edge of observational astronomy and cosmology. LIGO is nearing completion on the R&D for a major upgrade to the existing observatory instruments. The advanced LIGO upgrade is scheduled for construction in 2008 through 2013, followed by commissioning and observation. The Project has exciting and challenging opportunities for bright, energetic, and motivated engineers and scientists.

LIGO is sponsored by the U.S. National Science Foundation to research, develop, and implement techniques for the detection of astrophysical gravitational waves. Facilities include research and development sites on the Caltech and MIT campuses and laser interferometer observatories located at Hanford, Washington and Livingston, Louisiana. For more information see the project web site at <http://www.ligo.caltech.edu/>

The Caltech/MIT Laser Interferometer Gravitational-Wave Observatory (LIGO) seeks highly motivated Systems/Network Administrator, Assistant to join its team.

LIGO Hanford Observatory seeks qualified candidates to assist with data management and system administration tasks. The observatory is a cutting-edge facility designed to search for gravitational waves. It generates approximately 1 TByte of instrument data per day which is archived, distributed to remote locations, and locally processed in near real-time on a network of Sun and Linux servers, a tape library system, and a large Linux cluster. The Observatory also manages a substantial set of software systems to perform these tasks.

The successful candidate will work on a variety of tasks, as a part of a team of individuals at Caltech, MIT, LIGO Livingston Observatory, and LIGO Hanford Observatory. This individual must be interested in working with scientists, engineers and system administrators both locally and remotely, and be willing to assist them as needs arise. Candidates should have strong communication and problem solving skills to be able to assess project needs within their domain, implement solutions through a team, and troubleshoot and fix problems as they arise.

Job Duties:

Assist with the system administration of the observatory, especially the data analysis systems; write scripts and work on systems' software; manage data and its distribution to other LIGO sites; purchase, install, upgrade, and maintain data analysis hardware and software.

- Assists with installing, configuring, and maintaining servers, gateways, and cluster nodes, including file servers, storage area network servers, and web servers, in support of the data analysis systems.
- Manage the data by assisting in evaluating, implementing, and writing appropriate scripts, and by implementing hardware solutions.
- Performs installations and upgrades of software packages.
- Administer internal TCP/IP, fiber channel, and storage networks.
- Install, patch, and upgrade operating systems, and maintains them in accordance with established IT policies and procedures.
- Monitors and tune the systems to obtain optimum performance levels.
- Conducts routine hardware and software checks and audits, and assist with

purchase requirements
- Assist users of the data analysis systems

Minimum Requirements:

BS degree or equivalent plus 2-4 years related experience.

The selected candidate must pass a pre-employment background investigation to be hired for this position.

Skills, Knowledge & Abilities:

Experience with Linux or Solaris; writing shell scripts in python, tcl, or perl; networking; some experience with C/C++, engineering, or physics is helpful. Candidates should also list any experience they have with any of the following: Beowulf clusters, Sun and Linux servers, RAID disk systems, tape drives, tape robot systems, SAM-QFS, Storage Area Network (SAN), Grid Computing, Globus Toolkit, Condor, databases management, firewalls, data analysis, and signal processing.

How to Apply

Caltech offers a competitive salary, commensurate with qualifications and experience, as well as an excellent benefits package. To be considered for this position, please submit your resume at the following link:

http://www2.recruitingcenter.net/clients/CalTech/publicjobs/controller.cfm?jbaction=JobProfile&Job_Id=14492&esid=az

Caltech is an Affirmative Action/Equal Opportunity Employer. Women, Minorities, Veterans and Disabled Persons are encouraged to apply.

3. The Caltech/MIT Laser Interferometer Gravitational-Wave Observatory (LIGO) seeks Quality Assurance Engineer

QUALITY ASSURANCE ENGINEER, CIT14448CA

Salary Grade: 43 or 44, Location: LIGO Hanford Observatory, Hanford, WA 99354, Employer: Caltech

Length of term: Renewable, with an initial term of 3 years

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LIGO is sponsored by the U.S. National Science Foundation to research, develop, and implement techniques for the detection of astrophysical gravitational waves. Facilities include research and development sites on the

Caltech and MIT campuses and laser interferometer observatories located at Hanford, Washington and Livingston, Louisiana. For more information see the project web site at <http://www.ligo.caltech.edu/>

The Caltech/MIT Laser Interferometer Gravitational-Wave Observatory (LIGO) seeks a highly motivated, skilled and experienced Quality Assurance Engineer to join its team.

The candidate will:

- review and interpret design/engineering drawings/specifications to identify key technical characteristics and advise/assign appropriate quality requirements to supplier contracts for Mechanical/Electrical/Optical Parts and assemblies utilizing standard (LIGO) quality clauses.
- extensively interface with, and train, LIGO Laboratory scientists and engineers and staff to ensure that the appropriate levels of quality requirements and practices are implemented for all assembly, acceptance testing, installation and commissioning.

Job responsibilities include:

- Helping to establish and ensure implementation of supplier/vendor acceptance requirements, inspection procedures and processes.
- Reviewing quality performance of suppliers/vendors and contractors and corrective action requests to identify areas for improvement.
- Coordinating and/or maintaining quality records and report QA status as needed.
- Performing some limited inspection of in-house activities and products, incoming parts, return product and shippable product.

The position is to be filled at one of the LIGO Observatory sites (Livingston, Louisiana or Hanford, Washington); the candidate must be able and willing to travel extensively (roughly half-time) to vendors and to the other LIGO sites.

Minimum Requirements

Bachelors Degree in Mechanical or Electrical Engineering discipline with 5-10 years experience, or equivalent work experience. Experience in Quality Engineering of electronic assemblies, integrated circuits, including SMT is desired.

The selected candidate must pass a pre-employment background investigation to be hired for this position.

Knowledge, Skills & Abilities

The candidate must have the ability to interpret design and engineering requirements, understand manufacturing, installation, integration, and test practices, and advise/apply appropriate quality controls. Candidates must have

a working knowledge of general quality practices including vendor/supplier auditing, corrective action, material review, analysis of nonconformance data, and nonconformance procedures and processes. Motivation and creativity in designing an assurance program tuned to LIGO's needs is crucial.

The candidate must have experience in applying quality requirements for Mechanical/Electrical Parts and Assemblies. Knowledge of inspection and manufacturing practices, workmanship standards, and acceptance testing needed. Strong knowledge of ISO 9001 Quality Management System requirements, as well as applicable MIL Standards, ANSI, SAE, ASME, and other appropriate requirement specifications applicable to the aerospace industry.

The candidate must possess excellent communication skills (oral and written) and familiarity with research environments.

Candidates must have direct experience with the following Microsoft Word, Excel, Project and Power Point, and be ready to use (and potentially develop) web-based tracking systems. Facility with email as a working tool is vital.

Desirable that the candidate have knowledge and experience with

- particulate and general contamination control methods and processes required for ultra-high cleanliness vacuum system applications.
- optical component quality assurance

The career level and salary determination will be based on the applicant's experience, skills and competencies as they relate to the requirements of this position.

How to Apply

Caltech offers a competitive salary, commensurate with qualifications and experience, as well as an excellent benefits package. To be considered for this position, please submit your resume at the following link:

http://www2.recruitingcenter.net/clients/CalTech/publicjobs/controller.cfm?jbaction=JobProfile&Job_Id=14448&esid=az

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4. The Caltech/MIT Laser Interferometer Gravitational-Wave Observatory seeks Systems/Network Administrator, Associate

SYSTEMS/NETWORK ADMINISTRATOR - ASSOCIATE, CIT14539BR

Salary Grade: 42

Location: LIGO Hanford Observatory, Hanford, WA 99354

Employer: Caltech

Length of term: Renewable, with an initial term of 3 years

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The Caltech/MIT Laser Interferometer Gravitational-Wave Observatory (LIGO) seeks highly motivated Systems/Network Administrator, Associate to join its team.

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The successful candidate will work on a variety of tasks, as a part of a team of individuals at Caltech, MIT, LIGO Livingston Observatory, and LIGO Hanford Observatory. This individual must be interested in working with scientists, engineers, administrators and system administrators both locally and remotely, and be willing to assist them as needs arise. Candidates should have strong communication and problem solving skills to be able to assess project needs within their domain, implement solutions through a team, and troubleshoot and fix problems as they arise.

Job Duties:

Assist with the system administration of the observatory, especially the General Computing systems; install and monitor hardware and related applications, write scripts and work on systems' software; manage user accounts and local software distribution; purchase, install, upgrade, and maintain the end-user computers as well as the application servers.

- Assists with installing, configuring and maintaining operating system workstations and application servers, including web servers, in support of processing requirements.
- Performs software installations and upgrades to operating systems and layered software packages.
- Administers the communication network of the facility and works with the other groups in supporting their network needs.
- Schedules installations and upgrades of operating systems and maintains them in accordance with established IT policies and procedures.
- Setup user accounts and perform associated tasks.
- Monitors and tunes the systems and network traffic to achieve optimum performance levels.
- Ensures workstation, server, network, and data integrity by evaluating, implementing, and managing appropriate software and hardware solutions.
- Conducts routine hardware and software audits of workstations and servers, as well as approving action requests and purchase requirements.
- Work with various groups to help determine and implement computer related needs.

Minimum Requirements, Skills, Knowledge & Abilities:

2-5years of system administration experience with Linux or Solaris and Microsoft Windows; experience in writing shell scripts and or other scripting language such as; python, tcl, or perl; networking; system administration experience with Mac OS is desirable; engineering, or physics is helpful.

Candidates should also list any experience they have with any of the following: SolidWorks, Primavera, project management tools, Beowulf clusters, Sun and Linux servers, RAID disk systems, tape drives, tape robot systems, SAM-QFS,

Storage Area Network (SAN), Mail services, web services, databases management, firewalls, LDAP, Computer Security.

The selected candidate must pass a pre-employment background investigation to be hired for this position.

How to Apply

Caltech offers a competitive salary, commensurate with qualifications and experience, as well as an excellent benefits package. To be considered for this position, please submit your resume at the following link:

http://www2.recruitingcenter.net/clients/CalTech/publicjobs/controller.cfm?jbaction=JobProfile&Job_Id=14539&esid=az

To view a complete list of Caltech open staff positions, please visit us at www.Caltech.edu.

Caltech is an Affirmative Action/Equal Opportunity Employer. Women, Minorities, Veterans and Disabled Persons are encouraged to apply.

5. The Caltech/MIT Laser Interferometer Gravitational-Wave Observatory (LIGO) seeks 3 Operations Specialists

OPERATIONS SPECIALIST (3 positions), CIT14486CA1

Salary Grade: 41

Location: LIGO Hanford Observatory, Hanford, WA 99354

Employer: Caltech

Length of term: Renewable, with an initial term of 3 years

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LIGO is sponsored by the U.S. National Science Foundation to research, develop, and implement techniques for the detection of astrophysical gravitational waves. Facilities include research and development sites on the Caltech and MIT campuses and laser interferometer observatories located at Hanford, Washington and Livingston, Louisiana. For more information see the project web site at <http://www.ligo.caltech.edu/>

The Caltech/MIT Laser Interferometer Gravitational-Wave Observatory (LIGO) seeks highly motivated Operations Specialists to join its team. There are 3 positions available.

The successful candidate will support commissioning, operation and improvement of the interferometer and associated infrastructure at the LIGO Hanford Observatory, a component of the worldwide effort to detect and study gravitational waves from astrophysical sources

Job Duties

- * Carry out shift work as an operator of the LIGO Hanford Observatory. This work will support 24-hour monitoring and adjustment of interferometer systems and associated observatory equipment and facilities to insure optimal performance and data integrity.
- * Develop a working knowledge of how to operate and maintain the interferometer and support systems through on-the-job experience, training, and interaction with LIGO staff and visitors.
- * Assist with installation, test, commissioning, and operation of optics, electro-mechanical components, electronic controls, data acquisition and control hardware, and software.
- * Carry out calibration, maintenance, and upgrade of instrumentation at the Observatory, including the interferometer, infrastructure, support equipment, and other apparatus as required.
- * Participate in physical characterization of instrumental signatures in the interferometer data and assist with the development of operational techniques and analysis methods to discriminate these signatures.
- * Participate in scientific and educational activities of the observatory, including detector science and astrophysical investigations and outreach.
- * Assist in development of new technologies, protocols and methods to support the Observatory's continuing mission. These efforts may require occasional travel to other LIGO installations and collaborating institutions.

Minimum Requirements

- * Formal education in physics or engineering (BS or MS degree) or demonstrated equivalent experience.

- * Proficiency with standard computing applications (e.g., Word, Excel, web applications).
- * Excellent English language written and oral communication skills
- * Strong teamwork skills and an ability to collaborate with coworkers having diverse skills and backgrounds
- * An aptitude and enthusiasm to learn new skills, and to assist and train others

Knowledge, Skills & Abilities

- * Familiarity with some scientific modeling and analysis applications, such as MATLAB, Mathematica, SPICE; the C programming language; and/or the UNIX operating system environment will be beneficial.
- * Proficiency with 2D and 3D CAD software (such as ACAD and SolidWorks) will be beneficial. Finite element analysis experience is a plus.
- * Experience with EPICS databases, scripts for automating tasks, and the ability to develop and create GUIs would be an asset.
- * Specialized technical experience with lasers, optics, analog or digital electronics, cleanroom protocols, or high vacuum technology will also be advantageous.
- *The successful candidate must be able to undertake extended shift work assignments during interferometer operation.

How to Apply

Caltech offers a competitive salary, commensurate with qualifications and experience, as well as an excellent benefits package. To be considered for this position, please submit your resume at the following link:

http://www2.recruitingcenter.net/clients/CalTech/publicjobs/controller.cfm?jbaction=JobProfile&Job_Id=14486&esid=az

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6. The Caltech/MIT Laser Interferometer Gravitational-Wave Observatory (LIGO) seeks Electrical Engineer, Assistant.

ELECTRICAL ENGINEER, ASSISTANT, CIT14449CA

Salary Grade: 42

Location: LIGO Hanford Observatory, Hanford, WA 99354

Employer: Caltech

Length of term: Renewable, with an initial term of 3 years

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The Caltech/MIT Laser Interferometer Gravitational-Wave Observatory (LIGO) seeks a highly motivated experienced Electrical Engineer, Assistant to join its team.

Caltech staff position resident at LIGO Hanford Observatory. Working with senior engineer, share responsibility for all electrical/electronic engineering activities at the observatory, including installation, maintenance, development and upgrades associated with the detector equipment and support facilities. Take the lead for the effective operation of the electronics lab, including equipment and components. Work in team environment with other scientific and engineering staff to meet the goals of the observatory.

Job Duties

A. Lead efforts in the integration, implementation and troubleshooting of observatory equipment. Work on existing equipment to enhance the reliability of scientific output of the observatory. Oversee and direct contractors during installation of equipment.

B. Use of test equipment (i.e. oscilloscopes, Network analyzers, function generators) to diagnose and cure equipment faults down to both analog/digital

and RF circuit components and establish/maintain preventative maintenance program.

C. Translate conceptual designs into functioning circuit boards, from layout to test in a timely fashion with little direction. Work with software package (e.g., Protel/Altium) for the layout and manufacture of circuit boards.

D. Work with various software packages on a day-to-day basis for communication (e-mail), reports, simulations and testing; independently troubleshoot problems encountered while working on computer.

Minimum Requirements

Bachelor's degree in electrical/electronics engineering with 0-2 years experience or equivalent. Understanding of basic electrical and electronic concepts, motion and process controls, analog and digital circuits. Good communication skills, both verbal and written. Ability to solder and produce small assemblies, read electronic drawings. Demonstrated interest in practical work, such as hobby in electronics. Experience with RF and optics equipment, knowledge of UNIX/Linux and/or EPICS are desirable. Desirable attributes include ability to take ownership of projects and duties, ability to do quality work within budget and schedule constraints, eagerness to learn new things and to participate in a bold scientific exploration.

How to Apply

Caltech offers a competitive salary, commensurate with qualifications and experience, as well as an excellent benefits package. To be considered for this position, please submit your resume at the following link:

http://www2.recruitingcenter.net/clients/CalTech/publicjobs/controller.cfm?jbaction=JobProfile&Job_Id=14449&esid=az

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7. Postdoctoral research position at the Levitch Institute of the City College of New York

The Levitch Institute of the City College of New York is seeking candidates for a research associate (postdoctoral) position to work at the interface of Chemical Engineering and Physics. Please see <http://www1.ccny.cuny.edu/positions/MP-15132.cfm> for more information.

8. Permanent or temporary Program Officer for the Office of Special Programs, Division of Materials Research at NSF

The Division of Materials Research at the National Science Foundation announces an opening for permanent or temporary Program Officer for the Office of Special Programs (see http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12803&org=DMR&from=home). The position provides salary in the range \$98,033 to \$152,775 commensurate with experience.

Applicants must have a Ph.D. in the Physical Sciences or Engineering or a closely related field, demonstrated expertise in one or more areas covered by the Division of Materials Research, plus six or more years of successful research, research administration and/or managerial experience pertinent to the position. The appointee is expected to work with the materials research community to broaden the diversity of participants in NSF programs, and to integrate research and education in materials research.

Appointment to temporary positions may be through a one or two year Visiting Scientist appointment, a Federal Temporary appointment. Alternatively, these positions may be filled under the terms of the Intergovernmental Personnel Act (IPA). The NSF provides generous support to allow the holders to maintain active research programs at their home institutions.

Applicants for the temporary position should refer to vacancy number E20080085-Rotator at http://nsf.gov/about/career_opps/vacancies/scientific.jsp Applicants for the permanent position should follow the application instructions for vacancy number E20080098 on the same web page. Applications are due by July 15, 2008.

NSF IS AN EQUAL OPPORTUNITY EMPLOYER.

9. Wanted: Physicists Outdoor Sportsman Type

Action Nerds Wanted

I'm currently involved with the development of an IMAX documentary on the scientific love affair with nature. The main idea is to have a few young scientists who are also outdoor types, show what they personally are working on in science, what they're passionate about, and what they do outside for fun, and why. We're looking to make a film that will inspire people (especially kids) to love nature, play outside, and go into science. I'm hoping to get emails from or about people you know who might be good on camera, and interested in this kind of project.

We're especially looking for people doing active experimental or theoretical research in astrophysics/cosmology, in geophysics/climatology, or in particle physics. It would be fine if someone is doing research sufficiently related to one

of these fields that they could speak about one of them as an active researcher. Although we're currently mostly interested in physicists, we'll also consider bringing in a scientist in another field (biology, computer science, math, etc.) if they're doing something particularly interesting, love playing outside, and would be very good on camera.

It's equally important that this person be passionately involved in some outdoor activity sufficiently spectacular for IMAX 3D, such as skydiving, scuba, skiing, surfing, rock climbing, mountain biking, etc.

This project is in the very early stages of development, so don't get too excited--but it's got a good shot of being made, especially if we can put a fun and entertaining crew of scientists together. Also, since it's a documentary, there's not much money involved; it would mostly be for the fun of it. And, of course, it's for science.

So, if you know of such a person, please forward this on to them. Or, if you are such a person, please send an email introducing yourself to one of the producers:

John Hopgood, jhop1@earthlink.net

Best,
Garrett Lisi

10. Program Manager for Nuclear Theory, Office of Nuclear Physics at DOE

A Physicist position as Program Manager for Nuclear Theory is available in the Office of Nuclear Physics at DOE (Announcement number DE-SC-HQ-093(pm). The vacancy notice and application instructions can be accessed on the web at: <http://www.usajobs.gov>

A brief description of the position follows below. Please share this information with anyone who may be interested. The entire field benefits from having experienced, knowledgeable managers involved in the funding decisions and in the advocacy of the Nuclear Physics scientific program. Please encourage any interested person to contact Eugene A. Henry at 301-903-3614 or e-mail: <Gene.Henry@science.doe.gov> for additional information. The deadline for submission is 09/08/08. PLEASE NOTE SUBMISSION OF A COPY OF TRANSCRIPTS/OR COURSE LISTING IS REQUIRED BY 11 PM OF CLOSING DATE TO BE CONSIDERED FOR THIS POSITION.

Jehanne Simon-Gillo, Acting Associate Director of the Office of Science, for Nuclear Physics, Department of Energy

Duties and Responsibilities: The incumbent will serve as a recognized

technical authority and expert in theoretical nuclear physics, and will have the responsibility to plan, coordinate, implement, and evaluate research programs on a national and international level. The incumbent will serve as an expert and consultant to other scientists and senior management; organize, participate in, or lead committees composed of agency, interagency, and government personnel for the purpose of representing the DOE and programmatic interests. The incumbent will serve as a Program Manager determining scientific focus and direction of the research program in theoretical nuclear physics; preparing calls for proposals, organizing Principal Investigator meetings, serving as a liaison on committees, and monitoring scientific progress of the program. The incumbent will conceive, justify, plan, initiate, manage and coordinate all aspects of a broad range of theoretical nuclear physics. The incumbent will examine and ascertain pioneering research needs and opportunities against scientific and technological advances; lead the development of theoretical research in all areas of nuclear physics; prepare, justify, and support the portions of the budget relating to theoretical nuclear physics. The incumbent will critically evaluate contractor, DOE laboratory, and grantee research proposals and performance via scientific and technical judgment, merit review, site visits, and panel reviews; develop and prepare analytical documents to communicate with top management of DOE and higher echelons of government; and select and ascertain the qualifications and suitability of peer reviews for proposed programs in theoretical nuclear physics.

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