

Job vacancy notice

Physicist – Radionuclide Metrology (A-8/9)

Helping the development of new cancer therapies and supporting environmental protection

The International Bureau of Weights and Measures (BIPM) is an intergovernmental organization whose mandate is to provide the basis for a coherent system of measurements throughout the world, traceable to the International System of Units (SI). The BIPM is based in Sèvres, in the outskirts of Paris (France), and has an international staff of about 74. Further information can be found on www.bipm.org.

The BIPM seeks to recruit a candidate with expertise in radionuclide metrology for the following post within the Ionizing Radiation Department:

Post:	Physicist
Category:	A
Grade:	8 – 9, commensurate with qualifications and experience
Deadline for applications:	15 January 2018
Indefinite-term Appointment - Full-time	

The Ionizing Radiation Department organizes international comparison exercises for the measurement of radioactivity and dosimetry. The comparison exercises underpin the international measurement system for ionizing radiation, supporting fields such as nuclear medicine and environmental protection. The Department develops and operates very high accuracy, high stability, radioactivity measurement systems for gamma-emitting radionuclides and wishes to extend its capability to beta and alpha emitters and, in the long term, to build other capabilities.

Principal duties and responsibilities

Under the supervision of the Ionizing Radiation Department Director, the successful applicant will develop and implement techniques such as liquid scintillation counting for the measurement of beta- and alpha-emitting radionuclides, and apply the new techniques to run the international comparison exercises that enable national measurement institutes to demonstrate equivalence of measurement standards.

He/she will be an expert in radioactivity measurement techniques, with the willingness and aptitude to develop expertise in additional analytical techniques.

He/she will participate in the development of the long-term scientific strategy of the Department, identifying the needs for new methods for inter-laboratory comparisons and working with other members of the team to provide comparison schemes.

He/she will develop links with national measurement institutes worldwide, collaborating on joint projects with scientists seconded to BIPM and contributing to training for new scientists in the field. The job will include some travel to laboratories worldwide.

Necessary skills, qualifications and experience

- PhD in relevant field (radionuclide metrology, nuclear physics or similar);
- Strong technical skills in the measurement of beta- and alpha-emitting radionuclides, such as liquid scintillation counting (eg, CIEMAT/NIST or TDCR techniques);

- 5-10 years of relevant experience;
- Knowledge of measurement uncertainty evaluation and statistical treatment of data;
- Experience of working safely with radioactive and other hazardous materials;
- A fluent level of spoken and written English (for report writing, oral presentations and technical discussions);
- Ability to work in a team, in a multicultural environment and to maintain good working relations inside and outside the organization.

Previous experience in the following areas would be an advantage:

- Radionuclide measurement techniques and instrumentation, such as coincidence counting, proportional counters, scintillation detectors, high resolution gamma spectrometers;
- Development of data acquisition and analysis software;
- Use of Monte Carlo codes for detector simulation;
- Training / mentoring of scientists;
- Working in an ISO/IEC 17025 compliant or equivalent environment.

Although proficiency in French is not essential at the outset, the candidate will be expected to acquire a working knowledge of French after taking up the post, with lessons provided as necessary.

Terms of Employment

The BIPM offers for this position an indefinite-term appointment, full-time basis, with an initial probationary period of 6 months renewable once for a period of 6 months at a maximum.

The annual gross salary will be from around **46 700 Euros to around 55 700 Euros**, depending on qualifications and experience, plus expatriate and family allowances (if eligible). Salaries and allowances are exempt from income tax in France but taken into consideration for the calculation of the effective taxation rate depending on the marital situation.

Benefits include a minimum of thirty working days' vacation per year. The BIPM provides a contributory pension scheme and private health insurance for staff; health insurance can be extended to cover dependents.

Applications

The BIPM encourages applications from persons with relevant qualifications and experience, regardless of gender or nationality.

Please send a C.V., a list of publications and presentations, and a covering letter (in English or French) to recruitment@bipm.org by **midnight on 15 January 2018**. Applications should include the names of two referees who can comment on your suitability for the post (but only after an interview and referees will not be contacted without permission).

Candidates will be contacted in case of selection for an interview and may initially be requested to participate in a telephone interview.

The BIPM retains the discretion not to make any appointment to this vacancy; to make an appointment at a lower grade in particular if the selected candidate has less than the requested experience; to make an appointment with a modified job description, or to offer a contract term for a shorter duration than indicated in the Vacancy Announcement. The BIPM reserves the right to undertake correspondence only with shortlisted candidates.

Further details

For an informal discussion of the post, please contact the Ionizing Radiation Department Director, Dr Steven JUDGE tel.: +33(0)1-45-07-70-90 steven.judge@bipm.org