

# Nuclear Physicist (Codes Development) (P3)

(2018/0595  
(005023))



Organization: NAPC-Nuclear Data Development Unit  
Primary Location: Austria-Vienna-Vienna-IAEA Headquarters  
Job Posting: 2018-12-17, 6:09:41 PM  
Closing Date: 2019-01-14, 11:59:00 PM (CET)  
Duration in Months: 36  
Contract Type: Fixed Term - Regular  
Probation Period: 1 Year

**This is a re-opening of the vacancy. Candidates who already applied do not need to re-submit an application.**

## Organizational Setting

The Department of Nuclear Sciences and Applications implements the IAEA's Major Programme 2, "Nuclear Techniques for Development and Environmental Protection". This Major Programme comprises individual programmes on food and agriculture, human health, water resources, environment and radiation technologies. These programmes are supported by laboratories in Seibersdorf, Monaco and Vienna. The Major Programme's objective is to enhance the capacity of Member States to meet basic human needs and to assess and manage the marine and terrestrial environments through the use of nuclear and isotopic techniques in sustainable development programmes.

The Division of Physical and Chemical Sciences is responsible for assisting and advising Member States in research and development for the nuclear sciences, especially the physical and chemical sciences. Specifically, the Division provides support to Member States in the following fields: production of radioisotopes and radiolabelled products for applications in health care and industry; radiation source applications; research reactor utilization; applications of accelerators and nuclear instrumentation; nuclear and atomic data for applications; controlled nuclear fusion and isotope hydrology and geochemistry.

Additionally, the nuclear science activities carried out by the Nuclear Data Section and Physics Section in the Division of Physical and Chemical Sciences of the Department of Nuclear Sciences and Applications fall under Major Programme 1.

The Nuclear Data Section (NDS) is primarily responsible for the generation and maintenance of a number of high-quality and fundamental nuclear and atomic databases and providing services to users worldwide. The main means of dissemination is via the NDS website, which provides interactive tools to present the required data.

## Main Purpose

As a member of the Nuclear Data Development Unit, led by the Unit Head and with additional guidance from the Section Head, the Nuclear Physicist leads Coordinated Research Projects (CRPs), produces publications, develops databases and software tools relevant to international users, undertakes nuclear data evaluations, develops and implements training workshops, assists Member States to access nuclear data and provides technical assistance at the request of Member States.

## Role

The Nuclear Physicist is: (a) a programme developer and implementer, providing input in planning and developing the IAEA's programme in the fields of nuclear reaction data, nuclear data processing, or nuclear structure and decay data; (b) a technical expert, carrying out the compilation of data leading to the production of databases, potentially undertaking evaluation work himself, and leading technical coordination of work carried out by Member States; (c) a technical and project officer, promoting, coordinating and evaluating moderately complex CRPs in the area of nuclear data applications.

## Functions / Key Results Expected

Provide input to develop and implement the IAEA's programme in nuclear reaction data, nuclear data processing, or nuclear structure and decay data.

Plan and conduct Technical Meetings in the area of nuclear reaction data, nuclear data processing, or nuclear structure and decay data, including assistance in preparing the scope, selecting participants, coordinating the preparation of reports and documentation.

Carry out technical work in the evaluation of nuclear reaction and/or nuclear structure and decay data or in nuclear data processing related to the evaluation work as input to international databases.

Promote, coordinate and evaluate moderately complex CRPs involving participants from several Member States and conduct studies and assessments related to issues and trends.

Plan, organize and conduct training for various topics related to nuclear reaction data, nuclear data processing or nuclear structure and decay data.

## Competencies and Expertise

### Core Competencies

Name	Definition
Planning and Organizing	Plans and organizes his/her own work in support of achieving the team or Section's priorities. Takes into account potential changes and proposes contingency plans.
Communication	Communicates orally and in writing in a clear, concise and impartial manner. Takes time to listen to and understand the perspectives of others and proposes solutions.
Achieving Results	Takes initiative in defining realistic outputs and clarifying roles, responsibilities and expected results in the context of the Department/Division's programme. Evaluates his/her results realistically, drawing conclusions from lessons learned.
Teamwork	Actively contributes to achieving team results. Supports team decisions.

### Functional Competencies

Name	Definition
Commitment to continuous process improvement	Plans and executes activities in the context of quality and risk management and identifies opportunities for process, system and structural improvement, as well as improving current practices. Analyses processes and procedures, and proposes improvements.
Partnership building	Identifies and builds partnerships. Develops and maintains long lasting partnerships to strengthen relationships. Delivers programmatic outputs and acquires resources in support of Agency goals.
Technical/scientific credibility	Ensures that work is in compliance with internationally accepted professional standards and scientific methods. Provides scientifically/technically accepted information that is credible and reliable.

## Required Expertise

Function	Name	Expertise Description
Information Technology	Data Analysis	Experience with numerical data handling
Physics	Neutron Physics	Experience with theoretical and experimental nuclear data
Physics	Nuclear Physics	Experience with nuclear data libraries

## Qualifications, Experience and Language skills

- An advanced university degree (Master's Degree or equivalent) in Nuclear Physics or related field. A PhD would be an asset.
- At least five years of combined relevant experience at the national/international level in a relevant field.
- Proven experience in production of nuclear databases or evaluated data files is required.
- Experience in programming languages and computer skills for scientific applications are required.
- Experience in organizing training courses, workshops and seminars is an asset.
- Excellent oral and written command of English is required. Knowledge of other official IAEA languages (Arabic, Chinese, French, Russian and Spanish) is an asset.

## Remuneration

The IAEA offers an attractive remuneration package including a tax-free annual net base salary starting at **US \$59151** (subject to mandatory deductions for pension contributions and health insurance), a variable [post adjustment](#) which currently amounts to **US \$ 26618\***, dependency benefits, [rental subsidy](#), [education grant](#), [relocation](#) and [repatriation expenses](#); 6 weeks' annual vacation, [home leave](#), [pension plan](#) and [health insurance](#)

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**Applications from qualified women and candidates from developing countries are encouraged**

Applicants should be aware that IAEA staff members are international civil servants and may not accept instructions from any other authority. The IAEA is committed to applying the highest ethical standards in carrying out its mandate. As part of the United Nations common system, the IAEA subscribes to the following core ethical standards (or values): [Integrity](#), [Professionalism](#) and [Respect for diversity](#). Staff members may be assigned to any location. The IAEA retains the discretion not to make any appointment to this vacancy, to make an appointment at a lower grade or with a different contract type, or to make an appointment with a modified job description or for shorter duration than indicated above. Testing may be part of the recruitment process

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