

## PaNET adoption at DESY.

Since the first use of photons and neutrons as probes, the Photon and Neutron (PaN) community has been developing an ever increasing portfolio of experimental techniques. These different techniques bear similarities to each other by exploiting similar experimental physical processes, using similar experimental probes, having similar functional dependencies, or having similar purposes. This creates a complex structure of techniques that is best organised as an ontology, with persistent identifiers for each technique: the Photon and Neutron Experimental Technique (PaNET) ontology. The initial purpose of PaNET is to help find open datasets, additionally it is also being used in other contexts.

You would be working on developing web-based applications that are based on semantic web technologies (e.g., SPARQL), extending and enhancing PaNET itself, facilitating the adoption of PaNET at DESY, and helping building bridges between PaNET and other technologies.

### Group

IT

### Project Category

B5. Computing

### DESY Site

Hamburg

### Special Qualifications

Requirements: Experience with programming and git

Beneficial: knowledge of semantic web technology, knowledge of HTML and web-based technologies, functional programming.

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