

Reference letter

Mr. Hong Xu, born on 5 April 1993 in Anhui, China, was employed as an intern on a full-time basis in our group 'Scientific Instrument MID' (Materials Imaging and Dynamics) from 4 May 2015 until 31 July 2015.

The European X-Ray Free-Electron Laser Facility GmbH (European XFEL GmbH) is a multi-national non-profit company, which will make available X-rays of unique quality for studies in physics, chemistry, the life sciences, materials research and other disciplines. Located in the Hamburg area, Germany, the facility is currently being constructed and will start operation in 2017.

Mr. Xu's main tasks during his internship involved:

- the design, construction and testing of the test-stand for the Hard X-ray Split-and-Delay Line (SDL) at European XFEL
- complete the mechanical drawing of test-stand
- assemble and test the vacuum chamber for the test-stand
- design the electronic connections and manufacture cables for in-vacuum motors
- test the in-vacuum translation devices
- program control interface for the translation devices
- select and order components for the setup

Mr. Xu demonstrated very quickly that, due to his very good theoretical and technical knowledge and his keen perception, he was able to rapidly familiarize himself with new tasks. After just a short time, he applied his newly developed job-specific knowledge very successfully into the working process. In his area of activity Mr. Xu always performed his tasks on his own with a great deal of initiative and motivation. His independent and responsible approach always afforded him great success.

Thanks to his co-operative and friendly nature his working relationship with his superiors and colleagues was always faultless.

In summary, we were fully pleased with his very good performance in all respects.

Mr. Xu is leaving us at the end of the agreed period of the internship in order to continue his studies. We thank him for his commitment and his very good performance. We wish him all the best for his professional and private life along with much continued success.

Hamburg, 31 July 2015

European X-ray Free-Electron Laser Facility GmbH



Dr. Anders Madsen

Group Leader Scientific Instrument MID



Mareike Fritz

Human Resources