

Effective July 1, 2015

INSTRUMENT MAKER SPECIALIST TITLE SERIES DEFINITIONS

I. DEFINITIONS

INSTRUMENT MAKER – SPECIALIST

Positions at this level perform Instrument Maker – Advanced level work for a majority of time and in addition possess expert level skills in one of the following areas: (1) Ultra High Vacuum (UHV) welding, machining, and assembly. Employees possess expert level skills in UHV instrument manufacturing including UHV welding, and UHV precision machining and assembly. (2) Ultrasonic and nuclear magnetic resonance (NMR). Employees at this level are considered experts at applying the above advanced knowledge to designing, machining and assembling of custom scientific apparatus including “phantoms.” To be classified at this level the employee must spend the majority of their time in either UHV welding, machining and assembly, or fabrication of instrumentation and apparatus using ultrasonic and nuclear magnetic resonance (NMR) equipment and techniques..

Examples of Work Performed:

- 1) Perform ultra high vacuum welding on scientific instruments and perform precision machining and assembly of UHV scientific instruments.
- 2) Make essential design contributions and manufacture molds and tissue-mimicking materials for testing clinical and state-of-the-art ultrasound and/or NMR imaging systems. Provide design contribution and perform precision machining and assembly of original scientific instruments for use in measurements of ultrasound and/or NMR related parameters.

II. QUALIFICATIONS

The qualifications required for this position will be determined at the time of recruitment. Such determinations will be made based on an analysis of the goals and worker activities performed and by an identification of the education, training, work or other life experience which would provide reasonable assurance that the knowledge and skills required upon appointment have been acquired.

III. RELATED TITLES

Instrument Shop Manager, Facility Repair Worker or Facility Maintenance Specialist