

## ASSISTANT PROFESSOR of ANALYTICAL CHEMISTRY

The Department of Chemistry at Tennessee Technological University (TN Tech) invites applications for a full-time, tenure-track Assistant Professor position (9-month contract) in Analytical Chemistry starting August 2023. A Ph.D. in chemistry from an accredited institution with professional training and research focused on analytical chemistry is required. Postdoctoral or industrial experience is required. In addition to sufficient training and experience in chromatography, research experience in mass spectrometry (MS) is required. Experience in independent development of analytical methods in GC/MS, LC/MS, LC/MS/MS or UPLC/qTOF MS is highly preferred. Researchers who apply analytical chemistry techniques in any application areas or problems are welcome, for example, bioanalytical, biomedical, environmental, forensic, and industrial/process methods, etc.

The candidate will be expected to establish and sustain a vigorous, independent research program that engages undergraduate and graduate students and complements the department's existing research with expected outcomes, while vigorously pursuing external research support. Competitive startup funds to initiate desired research are available. The department strongly encourages interaction with *Oak Ridge National Laboratory* (ORNL). Teaching expectations will be at both undergraduate and graduate levels and include major responsibility for instruction in analytical chemistry courses including laboratories and may involve general chemistry and other courses. The complete position summary is available at: <https://jobs.tntech.edu/>.

All applications must be submitted online. A completed application must consist of (1) a letter of application, (2) a statement of research interests and program development ( $\leq 5$  pages) which embraces applications involving the current instruments of our department and includes estimated startup costs, (3) a teaching philosophy and interests statement ( $\leq 2$  pages), (4) a detailed curriculum vita, (5) copies of all transcripts including college and above for which a degree was conferred, and (6) the names and email addresses of three professional references who will be contacted to submit a letter of support on behalf of the applicant.

TN Tech is a comprehensive R2 institution with particular strengths in science and engineering located in the beautiful Upper Cumberland region in between Nashville and Knoxville. A low cost of living, no state income tax, and numerous outdoor activities within short driving distances contribute to a high quality of life in this rapidly growing area. The department confers an ACS-certified B.S. and M.S. in chemistry and participates in the interdisciplinary Environmental Science (EVS) Ph.D. program. A description of the department, available instrumentation, and the university is detailed at: <https://www.tntech.edu/cas/chemistry/>.

The department has just relocated to a newly built 160,000 ft<sup>2</sup> Laboratory Science Commons (LSC), an interdisciplinary laboratory science facility for research and teaching. Extensive investment in new modern instrumentation for research and teaching has well positioned the university for expanded outcomes in research. Recent acquisitions can be found at the department website under *Research/Instrumentation Listing* (<https://www.tntech.edu/cas/chemistry/instrumentation.php>).

Questions should be directed to Dr. Hong Zhang, Chair of the Analytical Chemistry Search Committee at [hzhang@tntech.edu](mailto:hzhang@tntech.edu). For full consideration, completed applications should be received prior to October 17, 2022. Applications will be accepted until the position is filled. Selected candidates will be requested to interview in person, and on campus commensurate with state of TN and Federal COVID-19 guidelines. TN Tech is an AA/EEO

employer and does not discriminate on the basis of race, color, religion, ethnic or national origin, sex, disability, age (40 and over), status as a protected veteran, genetic information or any other category protected by federal or state law. Inquiries regarding the nondiscrimination policies should be directed to [equity@tnitech.edu](mailto:equity@tnitech.edu).

## Relevant Department Instrumentation

### Separations/Chromatography

Agilent 6470A Triple Quadrupole LC/MS + 1260 Infinity II LC System (2021)

Agilent 8800/7000D Triple Quadrupole GC/MS (2021)

Agilent 1220 Infinity II Gradient LC with Diode Array Detector (2021)

[CombiFlash Rf Lumen Automated Flash Chromatography System](#)

[CTC Leap CombiPAL Autosampler for SPME \(2007\)](#)

Thermo Aquion Ion Chromatograph (2021)

Thermo ISQ 7000 GC-MS (single quadrupole) (2021)

Thermo Trace 1310-iS50 GC-FTIR (2021)

Thermo Trace 1310 GC-FID (2021)

Thermo ICS-6000 Ion Chromatograph with Eluent Generator (2021)

### Mass Spectrometry

Agilent 6470A Triple Quadrupole LC/MS + 1260 Infinity II LC System (2021)

Agilent 8800/7000D Triple Quadrupole GC/MS (2021)

Thermo ISQ 7000 GC-MS (Quadrupole) (2021)

Waters Radian ASAP System with LiveID (2021)

Waters Synapt G2-Si/Acquity UPLC (2021)