

Six Outstanding Researchers Join School of Engineering

Pursuing its emphasis on attracting star faculty, Rensselaer's School of Engineering welcomes another group of distinguished researchers and promising young scholars.



Douglas Chrisey
Professor
Dept. of Materials
Science and Engineering

Chrisey comes to Rensselaer from North Dakota State University, where he acted as chief research officer and deputy director for the Center for Nanoscale Science and Engineering. His credentials include research experience at Bell Labs and IBM, as well as 18 years with the Naval Research Laboratory. As an applied physicist, he is able to work seamlessly among the areas of materials, chemistry, and biology. Among his inventions are a laser method for creating oxide-based film coatings; ceramic-based coatings to make implantable devices more compatible with the body; and a laser-based "pen" that allows scientists to "write" electronic materials such as circuits.



Marc-Olivier Coppens
Professor
Dept. of Chemical and
Biological Engineering

An accomplished researcher, academic, and multidisciplinary scholar, Coppens most recently served at Delft University of Technology as professor and chair in physical chemistry and molecular thermodynamics. His expertise lies in reaction engineering, nanomaterials, nano-biotechnology, mathematical modeling (chaos and fractals), and nature-inspired chemical engineering. Coppens has published 49 refereed papers, three invited popularized papers, and 21 refereed contributions to books and conference proceedings. He also holds a patent and has been the recipient of numerous awards.



David T. Corr
Assistant Professor
Dept. Biomedical
Engineering

Corr was most recently a postdoctoral fellow at the University of Calgary McCaig Centre for Joint Injury and Arthritis Research, where he specialized in orthopedic biomechanics. An outstanding young researcher with broad-based knowledge and interests, Corr brings to the department a strong background in theoretical and applied mechanics, coupled with research at the whole tissue level.



Lucy Zhang
Assistant Professor
Dept. of Mechanical,
Aerospace, and
Nuclear Engineering

With a research focus in computational mechanics and fluid dynamics, Zhang has won multiple awards and published numerous journal articles. She most recently served as assistant professor of mechanical engineering for Tulane University. At Rensselaer, Zhang will likely continue investigating nanoscale mechanics and materials and modeling fluid-structure interactions with dynamic interfaces. Specific areas of interest include cardiovascular hemodynamics, nanostructured materials manufacturing, and multiphase flows.



Emily "Li" Liu
Assistant Professor
Dept. of Mechanical,
Aerospace, and
Nuclear Engineering

Liu joins Rensselaer after extensive research at MIT and the NIST Center for Neutron Research. At MIT, she utilized small-angle neutron scattering, looked at alternative energy through the storage of hydrogen, and investigated the dynamics of supercooled water. She plans to continue her neutron and water research at Rensselaer, while also pursuing the dynamics of water in different nanosized materials and using Rensselaer's particle accelerator to generate neutrons.

Xavier Intes
Assistant Professor
Dept. of Biomedical
Engineering

Most recently, Intes was chief scientist at Advanced Research Technologies in Montreal, where he conducted research into biophotonics and biomedical instrumentation. His research concentration is on functional imaging of the breast and brain, fusion with other modalities, and fluorescence molecular imaging. At Rensselaer, Intes will continue to pursue the development of original optical imaging systems and new imaging algorithms, along with the application of these methods to optical molecular imaging problems.