

“Project Harmonia will provide the technology to transform the moon from a location darkened by night and shadow to one enlightened by science and exploration, ultimately for the good of the nation and humankind,” said Tyler Bernstein, chief executive officer and cofounder of Zeno Power. “Zeno is excited to work with these industry leaders to bring both americium-241 and Stirling conversion technologies to the lunar surface for the first time.”

FUSION

University of Rochester aims for mass production of inertial fusion energy targets

Proponents of inertial fusion energy celebrated in December 2022, when researchers at the National Ignition Facility at Lawrence Livermore National Laboratory achieved fusion ignition by subjecting a carefully crafted diamond cryogenic sphere containing frozen deuterium-tritium fuel to NIF’s laser energy. For inertial fusion energy to serve as a reliable power source, it will require swift, reliable, and economic target production.

Researchers at the University of Rochester’s Laboratory for Laser Energetics (LLE) announced on July 10 that they had “for the first time experimentally demonstrated a method called dynamic shell formation, which may help achieve the goal of creating a fusion power plant.” The researchers, including Igor Igumenshchev, a senior scientist at LLE, and Valeri Goncharov, a distinguished scientist and theory division director at LLE and an

Research & Applications continues



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Tenure-Track/Tenured Professor Positions

Nuclear Engineering and Radiation Science (NERS)

NERS invites applications for two tenure-track assistant professor positions. Areas of interest include but are not limited to the following: advanced reactor development, bio-applications of nuclear technology, materials under extreme environments, and big-data science in nuclear technology (machine-learning, digital twin, etc). Successful applicant should be able to teach classes in NERS Strong and highly qualified candidates may be considered for tenured appointment at associate professor level.

Application Process

Missouri S&T’s Human Resources Office at: <http://hr.mst.edu/careers/academic-employment>. The search committee will start reviewing applications September 22, 2023. Applications will be reviewed as they are received until the position is filled. For more information, please contact the Search Committee Chair, Ayodeji Alajo, at 573-341-6609 or alajoa@mst.edu.

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