

Department of Energy Announces \$43 Million for Fusion Innovation Research Engine Collaboratives

Announcement Number: DE-FOA-0003361

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The Fusion Innovative Research Engine (FIRE) Collaboratives are aimed at creating a fusion energy science and technology innovation ecosystem. FES is pleased to announce the first round of awards for the FIRE Collaboratives. Projects in this first round support materials and technologies required by a diverse set of concepts. They include developing nuclear blanket testing capabilities at Idaho National Laboratory, materials development at the University of Tennessee – Knoxville, materials testing and advanced simulation capabilities at Massachusetts Institute of Technology, target injector technology for inertial fusion concepts, fusion fuel cycle testing capabilities at Savannah River National Laboratory.

Selection for award negotiations is not a commitment by DOE to issue an award or provide funding.

| Principal Investigator | Title | Institution | City | State | ZIP Code |
|------------------------|--|---|-------------|-------|------------|
| Ernst, Darin | FIRE Collaborative: Advanced Profile Prediction for Fusion Pilot Plant Design (APP - FPP) | Massachusetts Institute of Technology | Cambridge | MA | 02139-4307 |
| Lore, Jeremy | FIRE Collaborative: Advanced Profile Prediction for Fusion Pilot Plant Design (APP - FPP) | Oak Ridge National Laboratory | Oak Ridge | TN | 37830-6118 |
| Dorf, Mikhail | FIRE Collaborative: Advanced Profile Prediction for Fusion Pilot Plant Design (APP - FPP) | Lawrence Livermore National Laboratory | Livermore | CA | 94550-0808 |
| Garcia-Diaz, Brenda | FUSION INNOVATION RESEARCH ENGINE (FIRE) COLLABORATIVE | Savannah River National Laboratory (SRNL) | Aiken | SC | 29808 |
| Icenhour, Casey | FUSION INNOVATION RESEARCH ENGINE (FIRE) COLLABORATIVE | Idaho National Laboratory | Idaho Falls | ID | 83415-0001 |
| Zhong, Weicheng | FUSION INNOVATION RESEARCH ENGINE (FIRE) COLLABORATIVE | Oak Ridge National Laboratory | Oak Ridge | TN | 37830-6118 |
| Dumont, Joseph | FUSION INNOVATION RESEARCH ENGINE (FIRE) COLLABORATIVE | Los Alamos National Laboratory | Los Alamos | NM | 87545-0600 |
| Kolasinski, Robert | FUSION INNOVATION RESEARCH ENGINE (FIRE) COLLABORATIVE | Sandia National Laboratory | Livermore | CA | 94550-0808 |
| Calderoni, Patrick | Accelerating Fusion Blanket Development through Nuclear Testing (BNT) | Idaho National Laboratory (INL) | Idaho Falls | ID | 83415-0001 |
| Yu, Xiao-Ying | Accelerating Fusion Blanket Development through Nuclear Testing (BNT) | Oak Ridge National Laboratory | Oak Ridge | TN | 37830-6118 |
| Luscher, Walter | Accelerating Fusion Blanket Development through Nuclear Testing (BNT) | Pacific Northwest National Laboratory | Richland | WA | 99354 |
| Khodak, Andrei | Accelerating Fusion Blanket Development through Nuclear Testing (BNT) | Princeton Plasma Physics Laboratory | Princeton | NJ | 08543-0451 |
| Kolenski, Rob | Accelerating Fusion Blanket Development through Nuclear Testing (BNT) | Savannah River National Laboratory (SRNL) | Aiken | SC | 94550-0808 |
| Alexander, Neil | Target Injector Nexus for Development Research (TINDeR) | General Atomics | San Diego | CA | 92121-1122 |
| Glenzer, Siegfried | Target Injector Nexus for Development Research (TINDeR) | SLAC National Acceleratory Laboratory | Menlo Park | CA | 94025 |
| Koziowski, Bernard | Target Injector Nexus for Development Research (TINDeR) | Lawrence Livermore National Laboratory | Livermore | CA | 94550-0808 |
| Hartwig, Zachary | FIRE Collaborative: Rapid high-fidelity bulk irradiated materials data generation to accelerate solutions for commercial fusion energy systems | Massachusetts Institute of Technology | Cambridge | MA | 02139-4307 |
| Zinkle, Steven | The Fusion Innovation Research Engine Integrated Materials Program to Accelerate Chamber Technologies (FIRE IMPACT) | The University of Tennessee | Knoxville | TN | 37902-1529 |
| Yang, Ying | The Fusion Innovation Research Engine Integrated Materials Program to Accelerate Chamber Technologies (FIRE IMPACT) | Oak Ridge National Laboratory | Oak Ridge | TN | 37830-6118 |
| Burke, Grace | The Fusion Innovation Research Engine Integrated Materials Program to Accelerate Chamber Technologies (FIRE IMPACT) | Idaho National Laboratory | Idaho Falls | ID | 83415-0001 |