Opportunity Title: Magnetics/Power Electronics Collaboration - FRP
Opportunity Reference Code: NETL-2020-FRP-Albenze-1

Organization
National Energy Technology Laboratory (NETL)

Reference Code
NETL-2020-FRP-Albenze-1

How to Apply
A complete application consists of:

- An application
- Transcripts
- A current resume/CV, including academic history, employment history, relevant experiences, and publication list
- Two educational or professional references

All documents must be in English or include an official English translation.

Please send a CV to Erik Albenze at erik.albenze@netl.doe.gov

If you have questions, send an email to NETLinfo@orau.org. Please include the reference code for this opportunity in your email.

Application Deadline
12/31/2020 11:59:00 PM Eastern Time Zone

Description
Through the Oak Ridge Institute for Science and Education (ORISE) this posting seeks a Faculty researcher to collaborate with our in-house Magnetics/Power Electronics team. Collaborations would be in support of externally funded work-for-others efforts. Faculty member would help determine the direction of the existing efforts and develop proposals for new efforts to continue growing this area. Existing projects include efforts in design and fabrication of novel, advanced components for power conversion applications. Projects feature an emphasis on developing novel soft magnetic materials and processing techniques to develop superior components that will meet targeted needs. Faculty member would also help with commercializing the developed technologies.

The candidate will collaborate with our team to further develop the in-house program. This faculty member will develop a deeper understanding of the projects and skillsets needed to develop graduate students and post-doctoral researchers into the next generation of experts in this field. A successful collaboration could result in funding of such students and researchers through NETL's graduate education programs administered through ORISE. A successful collaboration would also help such students and researchers learn to navigate the commercialization process for developed technologies.

Qualifications
QUALIFICATIONS:

The successful candidate will possess:

- Expertise in design and fabrication of components for power conversion applications.
- Expertise in novel, advanced materials and processing techniques for the development of parts and components for power conversion applications.
- Expertise in the use of soft-magnetic materials in the development of components for power conversion applications.
- Expertise in commercializing novel power conversion technologies.

Eligibility Requirements
- Citizenship: U.S. Citizen Only
- Degree: Doctoral Degree.
- Discipline(s):
  - Communications and Graphics Design (2)
  - Computer Sciences (17)
  - Earth and Geosciences (23)

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- Engineering (27)
- Environmental and Marine Sciences (13)
- Life Health and Medical Sciences (47)
- Mathematics and Statistics (11)
- Nanotechnology (1)
- Other Physical Sciences (12)
- Physics (16)
- Social and Behavioral Sciences (32)

Affirmation
I certify that I am currently a full-time or part-time faculty member at an accredited college/university with a research interest in NETL core R&D areas.