GE
Aviation

Manish Dalal
VP Advanced Technology – Electric Power
GE Aviation Systems LLC

111 River Park Dr.
Dayton, Ohio 45409
U.S.A.

T 937 543-2545
www.ge.com/aviation

Dayton Region Priority Development and Advocacy Committee
1401 S. Main St. Suite 200
Dayton, OH 45409

To Whom it May Concern,

I lead advanced technology team for electric power business at GE Aviation focusing on maturation of TRL (Technology Readiness Level) and MRL (Manufacturing Readiness Level) for product and technology, advanced and disruptive technology development, drive successful execution of NPI (New Product Introduction) and NTI (New Technology Introduction) programs for commercial and military aviation customers.

I am writing this letter to support the creation of the Electric Rotating Machines and Power Electronics Center of Excellence which will be housed at the University of Dayton Research Institute located at 1700 South Patterson Blvd. in Dayton OH.

This Center of Excellence will support industry, academia, and Wright-Patterson Air Force base by advancing the regions capability to rapidly research, design, prototype, and test advanced electric rotating machines and high voltage power electronics. This facility will support GE's constant push to advance the field of aircraft power generators and support multiple new products currently in development. GE has a large presence in Ohio and looks to continue growing its presence in the region. This facility will support the creation of high skilled jobs which would otherwise be created outside the state or possibly outsourced to another country.

Lastly this unique partnership will allow recent advances to advanced manufacturing, artificial intelligence, and machine learning to be applied to testing these highly advanced technologies. By bringing together industry, academia, and Wright-Patterson Air Force Base this facility ensures the Dayton region will continue to support the needs for the integration of advanced technologies for years to come.

Sincerely,

Manish Dalal

Manish A. Dalal

Insert Required Legal Information

National Aerospace Electric Power Innovation Center

Facility Goals

- Rapidly create advanced rotating machine and power electronic prototypes, concept models, and manufacturing assembly aids
- Incorporate cutting edge technologies such as additive manufacturing, machine learning, and artificial intelligence into the development and testing process
- Enable Ohio manufacturers to leverage the UD-run facility to improve products and take advantage of new manufacturing techniques.
- Train the workforce of the future and support academic research

Requested Investment

- Requested Funding for Equipment: $2,500,000
- GE Matching Funds: $11,375,000
- UD Matching Funds: $1,375,000
- Funding Request is 18% of total investment

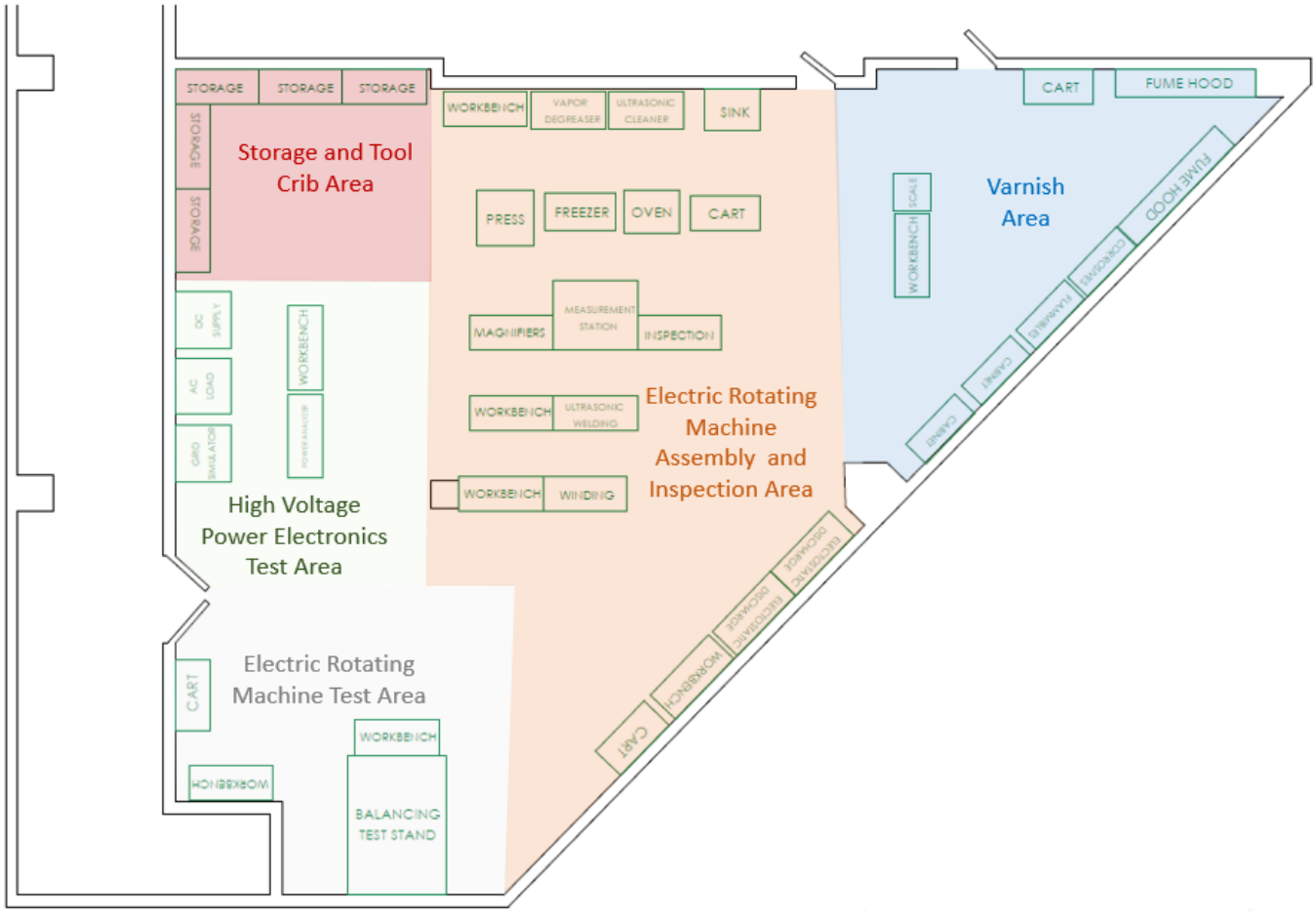
Benefits

- Creation of 22 highly paid positions
- Education for the workforce of the future
- Rapidly advance rotating machinery and power electronics technology in Dayton, OH
- Brings together Industry, Academia, and Government to solve challenging technological problems

GE Aviation

University of Dayton

SINCLAIR COMMUNITY COLLEGE

National Aerospace Electric Power Innovation Center Floor Plan
1 Nov 2019

The following is a proposed floor plan for the National Aerospace Electric Power Innovation Center housed at the University of Dayton.