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## **Nine Sigma- High Performance Thermal Insulation Materials for Electrical Cables- Request for Proposals**

### **Sponsor**

Nine Sigma

### **Program**

High Performance Thermal Insulation Material for Electrical Cables

### **For More Information**

Please visit the NineSigma webpage for the [High Performance Thermal Insulation Materials for Electrical Cables](#) [1].

### **Description**

NineSigma, representing a leading cable manufacturer, invites proposals for high performance and durable thermal insulation materials. The successful materials will be applied on electrical cables and must assure the proper working of these cables at operating temperatures up to 350°C and allow 90,000 service hours.

NineSigma's client produces a range of cables for demanding applications including aerospace. A challenging environment for electrical cables is the proximity to intense sources of heat. Novel developments will need cables to reliably perform under exposure to ever higher temperatures. Moreover as the anticipated lifetime of the electrical systems will increase also the cables should be engineered to last longer.

### **Funding Availability**

TBD

### **Indirect Costs**

40%

## Project Duration

The project consists of two phases:

### Phase 1 – Proof of concept:

Lab evaluation of promising materials, including accelerated durability tests e.g. chemical resistance, mechanical stress and flex testing, electrical testing. Assessment of cable manufacturing aspects.

### Phase 2 – Scale up for commercial use:

Implementing the solution in client's cable manufacturing technology

## Special Notes

Please note that only non-confidential information can be accepted.

## Deadlines

**If College-level review is required, your College will communicate its earlier internal deadlines.**

| Type                     | Date                               | Notes   |
|--------------------------|------------------------------------|---|
| <b>Internal Deadline</b> | Friday, March 6, 2015 -<br>4:30pm  | To Office of Research Services:<br>Please submit your<br>application/proposal, along with<br>an OR-5 Form to<br><a href="mailto:research.services@uoguelph.ca">research.services@uoguelph.c</a><br><a href="#">a.</a> [2] |
| <b>External Deadline</b> | Friday, March 20, 2015 -<br>4:30pm | To sponsor.   |

## How to Apply

Please visit the [Nine Sigma webpage](#) [1] for this opportunity and follow the application instructions.

For Questions, please contact

SOLUTION PROVIDER HELP DESK

Email: [phd@ninesigma.com](mailto:phd@ninesigma.com) [3] \*Reference RFP#7276107 in the subject line

Phone: +1-216-283-3901

## Office of Research

Meghan Grimes, Awards and Agreements Officer

Research Services Office

[mgrimes@uoguelph.ca](mailto:mgrimes@uoguelph.ca) [4]

Alert Classifications **Category:**

Funding Opportunities and Sponsor News

## Disciplines:

Physical Sciences and Engineering

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## Source

**URL:** <https://www.uoguelph.ca/research/alerts/funding-opportunity/2015/nine-sigma-high-performance-thermal-insulation-materials-electrical-cables>

## Links

[1] [https://ninesights.ninesigma.com/rfps/-/rfp-portlet/rfpViewer/2761?utm\\_source=Email&utm\\_medium=email&utm\\_campaign=7276107](https://ninesights.ninesigma.com/rfps/-/rfp-portlet/rfpViewer/2761?utm_source=Email&utm_medium=email&utm_campaign=7276107)

[2] <mailto:research.services@uoguelph.ca>

[3] <mailto:phd@ninesigma.com?subject=Question%20for%20NineSigma%20Request%20REQ7276107>

[4] <mailto:mgrimes@uoguelph.ca>