

Analysis

Department of Geology and Mineral Industries

Cooperating Technical Partners Program

Analyst: John Terpening

Request: Approve the submission of a federal grant application by the Department of Geology and Mineral Industries (DOGAMI) to the Federal Emergency Management Agency (FEMA), in the amount of \$2,482,230, for the Cooperating Technical Partners (CTP) program.

Analysis: The Department requests approval to apply for a federal grant from FEMA to support activities including LIDAR acquisition, geohazard mapping, earthquake impact analysis, and outreach activities. This is an annual grant offered by FEMA and DOGAMI has been awarded this competitive grant since 2008. The grant does not have a match requirement.

The Department has identified the following allocation of grant funds:

- \$1,855,376 will be used for LIDAR acquisition covering areas in Gilliam, Wheeler, Morrow, Grant and Baker counties for the first time. This will support future geohazard mapping projects. The Department anticipates other federal agencies like the U.S. Geological Survey and the Natural Resources Conservation Service to add funding to this project.
- \$487,619 for geohazard mapping of Roseburg and McMinnville for landslide and earthquake liquefaction hazard mapping, and channel migration hazard mapping for the City of Portland.
- \$81,931 for earthquake impact analysis of the Eugene-Springfield metro area to provide updated impact estimates from a Cascadia Subduction Zone earthquake.
- \$57,304 for outreach related to FEMA's Risk MAP program, where DOGAMI provides technical assistance to local governments who seek to implement actions that reduce risk of geohazards.

The grant proposals are due in June and awards are anticipated to be announced in the fall. The potential amount of the award is significantly higher than in previous years, with 2018's amount being \$1.1 million. While the Department does not require additional position authority or expenditure limitation for the grant at this time, if the full amount is received and additional federal partners invest in the proposed projects, more limitation may be requested in the future.

Legislative Fiscal Office Recommendation: Approve the request.

Department of Geology and Mineral Industries McGehee

Request: Authorization to apply for the Cooperating Technical Partners Program (CTP) federal grant from the Federal Emergency Management Administration (FEMA).

Recommendation: Approve the request.

Discussion: The Department of Geology and Mineral Industries (DOGAMI) is requesting authorization to submit a grant application to the Federal Emergency Management Agency (FEMA) for a funding opportunity under its Cooperating Technical Partners (CTP) program for Federal Funds totaling \$2,482,230.

This grant is administered by FEMA and provides continuing funds for DOGAMI's lidar acquisition, geohazard mapping, earthquake impact analysis, and supports FEMA's Risk MAP program.

The proposed funding for lidar acquisition would allow DOGAMI to cover areas in Gilliam, Wheeler, Morrow, Grant, and Baker counties for the first time. Continuing funds for generating high-quality topographic data will support future DOGAMI geohazard mapping projects, including information about flooding, channel migration, landslide, and earthquake shaking and liquefaction. The requested funding for these activities totals \$1,855,376.

The funding for geohazard mapping would cover three cities and various hazards. In the cities of Roseburg and McMinnville, funding would provide DOGAMI with the opportunity to perform landslide and earthquake liquefaction hazard mapping. In the city of Portland, funding will allow DOGAMI to perform channel migration hazard mapping. With this data, DOGAMI expects to publish maps in 2021. The requested funding for these activities totals \$487,619.

The funding for earthquake impact analysis would cover the Eugene-Springfield metro area and will allow DOGAMI to provide updated impact estimates from a Cascadia Subduction Zone (CSZ) earthquake. The impact estimates include the cost of repairing damaged or destroyed buildings, injuries and fatalities, displaced populations needing short-term shelter, and amount of debris. Additionally, the work will evaluate the potential impact of a CSZ earthquake to electrical infrastructure and major transportation routes. The requested funding for these activities totals \$81,931.

Lastly, DOGAMI would use funding to continue efforts in local coordination and outreach related to FEMA's Risk MAP program. Funding would provide technical assistance to local governments who seek to implement actions that reduce risk to geohazards. The requested funding for these activities total \$57,304.

This grant requires no state matching funds or position authority. However, should the grant be fully funded at \$2,482,230, DOGAMI will likely have to come back and ask for additional expenditure limitation. The Department has been awarded this competitive grant since 2008. The grant total has steadily increased over the years with \$1,150,000 awarded in 2018. This year's grant proposal is significantly higher and may not be fully funded.



Oregon

Kate Brown, Governor

Department of Geology and Mineral Industries

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May 8, 2019

The Honorable Senator Betsy Johnson
The Honorable Senator Elizabeth Steiner Hayward
The Honorable Representative Dan Rayfield
Joint Committee on Ways and Means
900 Court Street NE, H-178 State Capitol
Salem, OR 97301-4048

Dear Co-Chairpersons:

Nature of the Request

This letter requests Legislative approval for the Department of Geology and Mineral Industries (DOGAMI) to submit a grant application to the Federal Emergency Management Agency (FEMA) for a funding opportunity under its Cooperating Technical Partners (CTP) program. The grant application would be for a total of \$2,482,230 and is due in June 2019. Funding would support several activities, including lidar acquisition, geohazard mapping, earthquake impact analysis, and support of FEMA's Risk MAP program. DOGAMI has been awarded this competitive grant since 2008. The grant total has steadily increased over the years with \$1,150,000 awarded in 2018. This year's grant proposal is significantly higher and may not be fully funded. This grant does not have a match requirement.

Lidar Acquisition

Lidar acquisition would cover areas in Gilliam, Wheeler, Morrow, Grant, and Baker counties for the first time. The high-quality topographic data generated will support future DOGAMI geohazard mapping projects, including for flooding, channel migration, landslide, and earthquake shaking and liquefaction. Lidar has many applications beyond geohazard mapping and DOGAMI expects other federal agencies, including the U.S. Geological Survey and the Natural Resource Conservation Service, to add funding to expand on FEMA's initial investment. The amount requested for this activity is \$1,855,376.

Geohazard Mapping

Geohazard mapping would cover three cities and various hazards. In the cities of Roseburg and McMinnville, DOGAMI will perform landslide and earthquake liquefaction hazard mapping. In the City of Portland, DOGAMI will perform channel migration hazard mapping. DOGAMI expects to publish maps in 2021. The amount requested for this activity is \$487,619.

Earthquake Impact Analysis

Earthquake impact analysis would cover the Eugene-Springfield metro area. This project will use techniques and tools established by DOGAMI's 2018 Enhanced Earthquake Impact Analysis for the greater Portland area, and incorporate detailed asset and geologic data recently developed by DOGAMI for the greater Eugene-Springfield area to provide updated impact estimates from a Cascadia Subduction Zone (CSZ) earthquake. Impact estimates include the cost of repairing damaged or destroyed buildings, injuries and fatalities, displaced population needing short-term shelter, and amount of debris. The work will also evaluate the potential impact of a CSZ earthquake to electrical infrastructure and major transportation routes. Emergency planners at the City of Eugene, City of Springfield, and Lane County

have expressed a need for updated data for planning and mitigation purposes. The amount requested for this activity is \$81,931.

Local Coordination and Outreach

Finally, DOGAMI would continue its participation in local coordination and outreach efforts related to FEMA's Risk MAP program. DOGAMI's primary role is to provide technical assistance to local governments who seek to implement actions that reduce risk to geohazards. DOGAMI also coordinates with the Department of Land Conservation and Development and Oregon Emergency Management to advise FEMA on execution of the Risk MAP program in Oregon. The amount requested for this activity is \$57,304.

This grant opportunity supports DOGAMI's mission and goals to provide earth science information to make Oregon safe and prosperous.

Action Requested

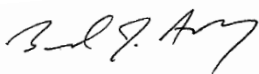
The department is requesting approval to apply to FEMA for the above CTP grant opportunity. If approved at historic levels, no federal funds limitation will be required. However, should DOGAMI be successful in its efforts to receive increased funding, a corresponding increase in its federal funds limitation will be required.

Legislation Affected

Legislation affected by this grant proposal is SB 5511 (2019).

Thank you for your consideration of this request. If you have any questions, please contact me at 971-673-1550.

Sincerely,



Brad J. Avy
Director

cc: Ken Rocco, Legislative Fiscal Officer
George Naughton, Chief Financial Officer
Kate Nass, Deputy Chief Financial Officer
Amira Streeter, Governor's Office
John Terpening, Legislative Fiscal Office
Breanna McGehee, Chief Financial Office