Structures

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The Structures Expert Task Group is responsible for reviewing research problem statements pertaining to structural issues of bridges, tunnels, and viaducts. High priority research areas are the following:

- Improved strategies for seismic retrofit of common Oregon bridges for long duration ground motions
- Improved technologies and methods for preventing and remediating corrosion of reinforcement materials.
- Development of structural component fabrication and assembly methods that reduce construction time and service-life costs of bridges.
- Develop bridge deck configuration, construction and materials combinations that improve service-life costs.
- Propose final research to facilitate the implementation of the findings of previous research projects.

The Structures ETG considers the following criteria when evaluating problem statements:

- Is the project research?
- Does the project address a high priority research area identified by the Structures ETG?
- Has prior research already addressed the issue adequately, or is there research in progress that is investigating the issue?
- Does the project continue or supplement a project previously sponsored by the Structures ETG?
- Are there significant barriers to implementing outcomes?
- Can the project outcomes be applied to many structures?
- Does the project enhance safety?
- Does the project improve ODOT’s ability to protect the environment?
- Do the outcomes improve the reliability and resiliency of Oregon’s transportation system?
- Does the project extend the service life and/or reduce the life cycle cost of structures?