K-TRAN

KANSAS TRANSPORTATION RESEARCH
AND NEW - DEVELOPMENTS PROGRAM

The K-TRAN Program is an ongoing, cooperative and comprehensive research program addressing transportation needs of the State of Kansas utilizing academic and research resources from the Kansas Department of Transportation, Kansas State University and the University of Kansas. Projects included in the annual research program are jointly developed by professionals at KDOT, KSU and KU.

Major benefits of the program include development of a flow of high quality transportation research targeted to Kansas transportation needs; financial support to engineering students contributing to the pool of transportation professionals in Kansas; continuing education opportunities for KDOT personnel; enhanced quality of faculty, staff and graduates in the transportation area; attracted federal research resources for use in Kansas; and a much expanded but efficiently organized transportation research resource in Kansas.

Electronic full text copies of completed K-TRAN research reports and summaries may be located on the KDOT Research Reports Catalog web site.

Information about active K-TRAN projects may be found on the TRB Research in Progress (RiP) web site.

K-TRAN annual solicitation guidelines

K-TRAN annual timeline

KDOT Research Organization and committee members

Contacts for more information:
Rodney A. Montney, P.E., Engineer of Research and Chairman of Technical Committee (785-296-7410) Fax: 785-296-2526, rodney@ksdot.org

Sunanda Dissanayake, Ph.D, Kansas State University (785-532-1540), sunanda@ksu.edu

Patricia C. Weaver, Associate Director, Transportation Research Institute, University of Kansas (785-864-2595), weaver@ku.edu
K-TRAN ANNUAL SOLICITATION GUIDELINES

Research project statements that are submitted by annual deadline will be evaluated by K-TRAN Area Panels, and prioritized by the Research Technical Committee. The Research Program Council approves an annual program using input from the Research Technical Committee and Area Panels. The seven Area Panels that have been organized for the review and development of research ideas are:

- Planning, Administration and Computing
- Operations: Pavements, Materials, Construction and Maintenance
- Geometric Design, Drainage and Environmental
- Structural
- Traffic Operations; Driver and Pedestrian Safety
- Multimodal: Rail, Aviation, Public Transit and Freight
- Local Governments

Research Needs Day is held in October in Topeka to discuss research needs developed from the annual idea solicitation and other topics of interest to both the Area Panel members and faculty attending. This is an opportunity for faculty attending to discuss potential research topics they have and get feedback prior to preparing their research project statements (preproposals).

Submit one copy of all research project statements using the following format before November 27th, each year to your University K-TRAN Technical Committee Coordinating Group Representative:

University of Kansas
Patricia C. Weaver
Transportation Research Institute
2160 Learned Hall
1530 W. 15th Street
Lawrence, Kansas 66045-7618
weaver@ku.edu

Kansas State University
Sunanda Dissanayake, Ph.D.
Dept. of Civil Engineering
2118 Fiedler Hall
Manhattan, Kansas 66506
sunanda@ksu.edu

Dr. Dissanayake and Ms. Weaver will number the original research project statements and electronically submit them to KDOT by December 1st each year.
FORMAT FOR RESEARCH PROJECT STATEMENTS

Submit one copy of research project statements (pre-proposals) with no more than two, single-spaced pages containing following information to your University K-TRAN representative (Dr. Dissanayake, KSU or Dr. McEnroe, KU):

I. RESEARCH PROJECT TITLE

II. RESEARCH PROBLEM STATEMENT

III. RESEARCH PROPOSED OR RESEARCH OBJECTIVES
    Include tasks to be performed

IV. ESTIMATE OF FUNDING AND RESEARCH PERIOD
    Inclusive of indirect costs, if appropriate
    Do not provide budget -- only overall estimated costs
    Include the anticipated period of performance

V. URGENCY AND PAYOFF POTENTIAL
    Include expected benefits expressed in dollars saved if results expected are obtained and implemented

VI. IMPLEMENTATION STRATEGY

VII. PROJECT PERSONNEL
    Faculty and students who might be involved with the project

VIII. SUBMISSION INFORMATION
    Date
    Name and Title
    University address
    University telephone and Fax number
    E-mail address

Use Standard English units in all research project statements, interim reports and final reports. Prepare the final report in Microsoft Word and submit file on CD as well as on paper.
GUIDELINES FOR EVALUATING RESEARCH IDEAS

Guidelines have been developed to assist the Research Technical Committee in formulating and recommending research projects for inclusion in the K-TRAN Program. These guidelines will be used in the review of research ideas for development into complete proposals for further consideration.

- Relevance to critical research needs of KDOT
- Projects with a high payoff potential described in dollars that can be saved if the research results envisioned result and are implemented.
- Relevance of proposed research idea to the theme of K-TRAN
- Amount of overlap of the proposed research idea with other programs or completed research idea with other programs of completed research (Proposed research should not be targeted for research topics or issues currently underway through the National Cooperative Highway Research Program National Cooperative Transit Research Program, or the Local Technology Assistance Program.)
- Duration of proposed research project. Project statements should be prepared with the most cost-effective duration considering the required workload, typical length of graduate study programs and other factors. The correct length of time shown should result in the project being completed without any cost extensions.
- Extent to which minorities and handicapped persons are involved in the research, either as participants, recipients or beneficiaries.
K-TRAN ANNUAL TIMELINE

Solicit research ideas from staff, local government officials and industry partners  
June 15 *

Deadline for submission of research ideas to Engineer of Research  
Aug. 15

Research Program Council review  
Sept. 1

Request for K-TRAN Research Project Statements  
Nov. 1

Deadline for Research Project Statements on campus  
Nov. 27

Deadline for Research Project Statements to KDOT  
Dec. 1

Assign RPS to Area Panels/ Research Technical Committee (RTC) meeting  
Dec. 15

Area Panel RPS evaluations completed/RTC meets to discuss and ballot RPS evaluations  
Feb. 15

Research Program Council discusses and approves annual K-TRAN Program and budget  
Mar. 1

Detailed Proposals Prepared for Approved Projects  
Apr. 1

Agreements prepared and signed for early start projects  
May 1

*approximate dates
Research Technical Committee

At Large Members:
Rodney A. Montney, Engineer of Research and Chairman of Technical Committee (296-7410) Fax: (785) 296-2526 rodney@ksdot.org
Susan Barker, Technology Transfer Engineer and Secretary of Committee (296-7410) SusanB@ksdot.org
Sandra Tommer, Chief, Bureau of Construction and Maintenance (296-3576) SandraT@ksdot.org
Jeff Neal, Chief, Office of Information Technology Services (296-3727) JFNeal@ksdot.org

Area Panel Leaders:
Planning, Administration and Computing: Dennis Slimmer, Chief, Bureau of Transportation Planning (296-3865), Dennis@ksdot.org
Operations: Pavements, Materials, Construction and Maintenance: Rick Kreider, Chief, Bureau of Materials and Research (296-3711) RickK@ksdot.org
Geometric Design, Drainage and Environmental: Jim Brewer, Engineering Manager, State Road Office (296-3901) Jbrewer@ksdot.org
Structural: Loren Risch, Engineering Manager-State Bridge Office (296-3761) loren@ksdot.org
Traffic Operations; Driver and Pedestrian Safety: Mike Floberg, Chief, Bureau of Transportation Safety and Technology (296-7431) Floberg@ksdot.org
Multimodal: Rail, Aviation, Public Transit and Freight: Joel Skelley, State Multimodal Planner, Bureau of Transportation Planning (296-4209) joelsk@ksdot.org
Local Governments: Ron Seitz, Chief, Bureau of Local Projects (296-3861) Seitz@ksdot.org

University Designees:
Patricia Weaver, Transportation Research Institute, University of Kansas, (785-864-2595), weaver@ku.edu
Thomas Mulinazzi, Ph.D., University of Kansas (864-2928), tomm@ku.edu
Sunanda Dissanayake, PH.D, Kansas State University (532-1540), sunanda@ksu.edu
Mustaque Hossain, Ph.D., Kansas State University (532-1576), mustak@ksu.edu

FHWA Representative:
Karen Gilbertson, ITS/Traffic Operations Engineer, FHWA-Kansas Division, 6111 SW 29th Street, Suite 100, Topeka, Kansas 66614-4271
K-TRAN Area Panel Members

Planning, Administration and Computing:
KDOT: Dennis Slimmer, Chief, Bureau of Transportation Planning (296-3865), Dennis@jksdot.org
FHWA: Paul Foundoukis, Community Planner, FHWA-Kansas Division, 6111 SW 29 Street, Suite 100, Topeka, Kansas 66614-4271,
KSU: Bobb Stokes, Professor, Kansas State University, Department of Civil Engineering, 2118 Fiedler Hall, Manhattan, Kansas 66506, (532-1595) drbobb@ksu.edu
KU: Patricia Weaver, Associate Director KUTC, 2160 Learned Hall, 1530 West 15\textsuperscript{th} Street, Lawrence, Kansas 66045-7618 (864-2595) weaver@ku.edu

Operations: Pavements, Materials, Construction and Maintenance:
KDOT: Rick Kreider, Chief, Bureau of Materials and Research, KDOT, (296-3711) RickK@ksdot.org and Roy Rissky, Chief, Bureau of Construction and Maintenance, KDOT, (296-3576) roy@ksdot.org
FHWA: Tom Deddens, Pavement Engineer, (271-2448 Ext. 212) tom.deddens@dot.gov and Doug Daugherty, Construction Engineer, (271-2448 Ext. 215) doug.daugherty@dot.gov, both FHWA-Kansas Division, 6111 SW 29\textsuperscript{th} Street, Suite 100, Topeka, Kansas 66614-4271
KSU: Mustaque Hossain, Professor, Kansas State University, Department of Civil Engineering, 2118 Fiedler Hall, Manhattan, Kansas 66506, (532-1576) mustak@ksu.edu
KU: Robert Parsons, Assistant Professor, University of Kansas, CEAE Department, 2150 Learned Hall, 1530 West 15\textsuperscript{th} Street, Lawrence, Kansas 66045-7609 (864-2946) rparsons@ku.edu

Traffic Operations: Driver and Pedestrian Safety:
KDOT: Mike Floberg, Chief, Bureau of Transportation Safety and Technology (296-7431) Floberg@ksdot.org
FHWA: David LaRoche, Program Development/Transportation Engineer, FHWA-Kansas Division, 6111 SW 29\textsuperscript{th} Street, Suite 100, Topeka, Kansas 66614-4271, (271-2448 Ext. 210) david.laroche@dot.gov
KSU: Sunanda Dissanayake, Assistant Professor, Kansas State University, Department of Civil Engineering, 2118 Fiedler Hall, Manhattan, Kansas 66506, (532-1540) sunanda@ksu.edu
KU: Mehrdad Givechi, Program Assistant / Research Engineer, KUTC, 2160 Learned Hall, 1530 West 15\textsuperscript{th} Street, Lawrence, Kansas 66045-7609 (864-2593) mgivechi@ku.edu
**Structural:**

**KDOT:** Loren Risch, Engineering Manager, State Bridge Office, Bureau of Design, KDOT, (296-3761) loren@ksdot.org

**FHWA:** Steve Toillion, Structural Engineer, FHWA-Kansas Division, 6111 SW 29th Street, Suite 100, Topeka, Kansas 66614-4271, (271-2448 Ext. 213) steven.toillion@dot.gov

**KSU:** Asad Asmaeily, Assistant Professor, Kansas State University, Department of Civil Engineering, 2118 Fiedler Hall, Manhattan, Kansas 66506, (532-6063) asad@ksu.edu

**KU:** JoAnn Browning, Assistant Professor, University of Kansas, CEAE Department, 2150 Learned Hall, 1530 West 15th Street, Lawrence, Kansas 66045-7609 (864-3723) jpbrown@ku.edu

**Geometric Design, Drainage and Environmental:**

**KDOT:** Jim Brewer, Engineering Manager, State Road Office, Bureau of Design, KDOT, (296-3901) Jbrewer@ksdot.org

**FHWA:** John Knowles, Transportation Engineer, FHWA-Kansas Division, 6111 SW 29th Street, Suite 100, Topeka, Kansas 66614-4271, (271-2448 Ext. 211) john.knowles@dot.gov

**KSU:** Steve Starrett, Associate Professor, Kansas State University, Department of Civil Engineering, 2118 Fiedler Hall, Manhattan, Kansas 66506, (532-1583) steveks@ksu.edu

**KU:** Dave Parr, Professor, University of Kansas, CEAE Department, 2150 Learned Hall, 1530 West 15th Street, Lawrence, Kansas 66045-7609, (864-3808) parr@ku.edu

**Multimodal: Rail, Aviation, Public Transit, Freight:**

**KDOT:** Joel Skelley, State Multimodal Planner, Bureau of Transportation Planning, KDOT, (296-4209) joelsk@ksdot.org

**FHWA:** Karen Gilbertson, ITS/Traffic Operations Engineer, FHWA-Kansas Division, 6111 SW 29th Street, Suite 100, Topeka, Kansas 66614-4271

**KSU:** Michael W. Babcock, Professor, Kansas State University, Department of Economics, 317 Waters Hall, Manhattan, Kansas 66506, (532-4571) mwb@ksu.edu

**KU:** Patricia Weaver, Associate Director KUTC, 2160 Learned Hall, 1530 West 15th Street, Lawrence, Kansas 66045-7609 (864-2595) weaver@ku.edu
**Local Governments:**

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**KU:** Tom Mulinazzi, Professor and Chair, University of Kansas, CEAE Department, 2150 Learned Hall, 1530 West 15th Street, Lawrence, Kansas 66045-7609, (864-2928) tomm@ku.edu