

Resources for Civil Engineers

1. 20 SaaS-based Software for Civil Engineers

- AutoCAD 360
- Procore
- PlanGrid
- Bluebeam
- Buildertrend
- Aconex
- BIM 360
- Revit
- Civil 3D
- SketchUp
- CoConstruct
- e-Builder
- ProjectSight
- CMiC
- Newforma
- Raken
- Plangrid Build
- Fieldwire
- TruView
- Pointfuse

2. Tutorial Links to Learn How to Develop These Software

AutoCAD 360 Tutorial: <https://www.autodesk.com/solutions/autocad-web-app>

Procore Training: <https://learn.procore.com/>

PlanGrid Tutorials: <https://help.plangrid.com/hc/en-us>

Bluebeam Training: <https://support.bluebeam.com/training-videos/>

Buildertrend Training: <https://help.buildertrend.net/en/>

Aconex Learning Center: <https://www.oracle.com/industries/construction-engineering/aconex/support.html>

BIM 360 Learning: <https://knowledge.autodesk.com/support/bim-360/learn>

Revit Tutorials: <https://knowledge.autodesk.com/support/revit/learn>

Civil 3D Tutorials: <https://knowledge.autodesk.com/support/civil-3d/learn>

SketchUp Training: <https://learn.sketchup.com/>

CoConstruct Training: <https://www.coconstruct.com/support>

e-Builder University: <https://university.e-builder.net/>

ProjectSight Training: <https://projectsight.trimble.com/training>

CMiC Training: <https://cmicglobal.com/training/>

Newforma Training: <https://www.newforma.com/training/>

Raken Training: <https://www.rakenapp.com/training>

PlanGrid Build Training: <https://www.plangrid.com/training/>

Fieldwire Tutorials: <https://help.fieldwire.com/hc/en-us>

TruView Learning: <https://www.leica-geosystems.com/en-us/products/laser-scanners/software/leica-cyclone/leica-cyclone-truview>

Pointfuse Training: <https://pointfuse.com/support/training/>

3. Sponsored Research Opportunities for Civil Engineers

NSF Engineering Research Programs:

https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505743

American Society of Civil Engineers (ASCE) Grants: <https://www.asce.org/funding/>

National Institute of Standards and Technology (NIST) Grants:

<https://www.nist.gov/topics/grants-contracts>

Department of Transportation (DOT) Research Grants:

<https://www.transportation.gov/grants>

Environmental Protection Agency (EPA) Research Grants:

<https://www.epa.gov/research-grants>

Federal Highway Administration (FHWA) Research Grants:

<https://www.fhwa.dot.gov/research/resources/funding.cfm>

Water Research Foundation Grants: <https://www.waterrf.org/funding>

National Cooperative Highway Research Program (NCHRP):

<https://www.trb.org/NCHRP/NCHRP.aspx>

American Concrete Institute (ACI) Foundation Scholarships and Fellowships:

<https://www.acifoundation.org/scholarships.aspx>

Structural Engineering Institute (SEI) Research Grants:

<https://www.asce.org/structural-engineering/sei-research-institute/>

American Institute of Steel Construction (AISC) Research Grants:

<https://www.aisc.org/technical-resources/research/>

Construction Industry Institute (CII) Research Grants: <https://www.construction-institute.org/research>

National Institute for Occupational Safety and Health (NIOSH) Grants:

<https://www.cdc.gov/niosh/oep/>

Smart Cities Council Research Grants: <https://smartcitiescouncil.com/resources>

International Council for Research and Innovation in Building and Construction (CIB): <https://cibworld.org/research/>

European Research Council (ERC) Grants: <https://erc.europa.eu/funding/advanced-grants>

United States Geological Survey (USGS) Grants: <https://www.usgs.gov/working-with-us/grants-and-cooperative-agreements>

National Science Foundation (NSF) Disaster Resilience Research Grants:

https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505088

American Water Works Association (AWWA) Research Foundation Grants:

<https://www.awwa.org/Membership-Volunteering/awwa-scholarships>

Earthquake Engineering Research Institute (EERI) Grants:

<https://www.eeri.org/about-eeri/funding-opportunities/>

4. Industrial Research Opportunities for Civil Engineers

Bechtel Research Opportunities: <https://www.bechtel.com/services/what-we-do/research-and-development/>

AECOM Research: <https://aecom.com/services/innovation-research-development/>

Arup Research: <https://www.arup.com/perspectives/research>

WSP Research: <https://www.wsp.com/en-GLH/services/research-and-innovation>

Jacobs Engineering Research: <https://www.jacobs.com/projects>

Fluor Corporation Research: <https://www.fluor.com/services/research-development>

Kiewit Corporation Research: <https://www.kiewit.com/services/>

Skanska Research: <https://www.skanska.com/what-we-deliver/services/research-and-development/>

Turner Construction Research: <https://www.turnerconstruction.com/experience>

DPR Construction Research: <https://www.dpr.com/company/research-development>

Lendlease Research: <https://www.lendlease.com/company/innovation-research/>

VINCI Research: <https://www.vinci.com/vinci.nsf/en/innovation-research.htm>

Balfour Beatty Research: <https://www.balfourbeatty.com/how-we-work/innovation/research-and-development/>

Hochtief Research: <https://www.hochtief.com/innovation/research-and-development>

Bouygues Construction Research: <https://www.bouygues-construction.com/en/innovation-and-technology/research-and-development>

Ferrovial Research: <https://www.ferrovial.com/en/business-lines/innovation-and-technology/>

Strabag Research:

https://www.strabag.com/databases/internet/_public/content.nsf/web/DE-STRABAG.COM-innovation-and-development.html

Royal HaskoningDHV Research: <https://global.royalhaskoningdhv.com/innovations>

Arcadis Research: <https://www.arcadis.com/en/innovation>

SNC-Lavalin Research: <https://www.snclavalin.com/en/innovation>