

ONEFIT PROJECTS

WE DESIGN, WE CONSULT

ABOUT US

OneFit Projects is a Mechanical engineering design, research, and development & consultancy company delivering innovative solutions for our clients and partners.

WHY CHOOSE US?

A team of highly qualified engineers from IITs with technical expertise, skills, and experience.

BENEFITS

- Reduction in R&D expenses
- No need for permanent hiring on short term projects
- Deepen your technical capabilities and skills set
- No more refusal of unique client demands due to shortage of technical expertise
- Stay flexible and agile

SERVICES CATALOG

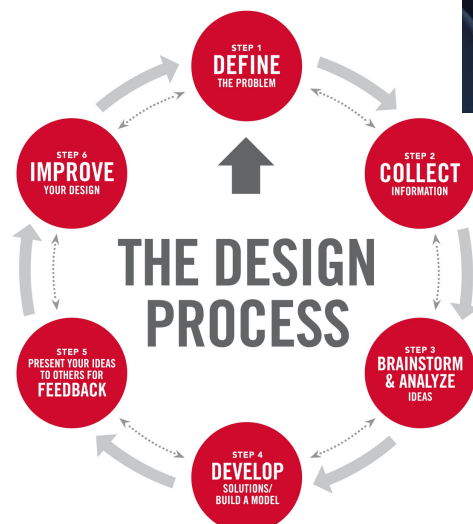
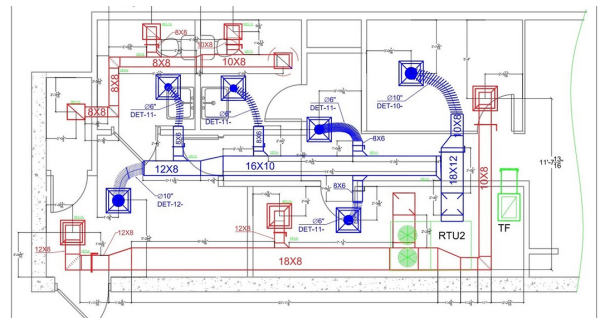
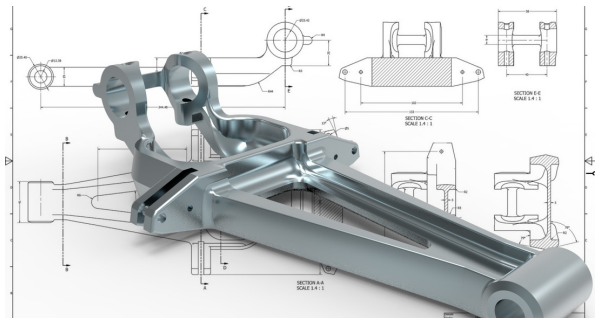
For more information visit our website: www.onefitprojects.com

DESIGN SERVICES

Onefit projects is a leading service provider of mechanical designs, drafting, and consulting services. Our area of expertise covers wide areas from the development of all types of mechanical designs like machine design, re-verse Engineering, tool design, etc. Generating 3D CAD Models, 2D Mechanical CAD drafting & detailing designs, CAD simulations & analysis.

Our Mechanical design services include the following:

- Conceptual Design
- prototyping
- Proof of concept
- Design Calculations & DFMEA Documentation
- Design for Fit, Form, and Function
- Thermal Engineering
- Jigs and Fixture Design
- Layout Engineering
- HVAC Systems Designs
- Machine Designs
- Static Equipment design like Reactors, Tanks, Pressure Vessels, etc.
- Piping layout
- Detailed Engineering of Design Concepts
- Components / Parts Design & Development
- Utility design like Cooling tower, Brine plants, Chillers
- Vacuum Systems Design
- Plant Layouts with equipment modeling & GA Drawings
- Reverse Engineering
- Product Design & Development

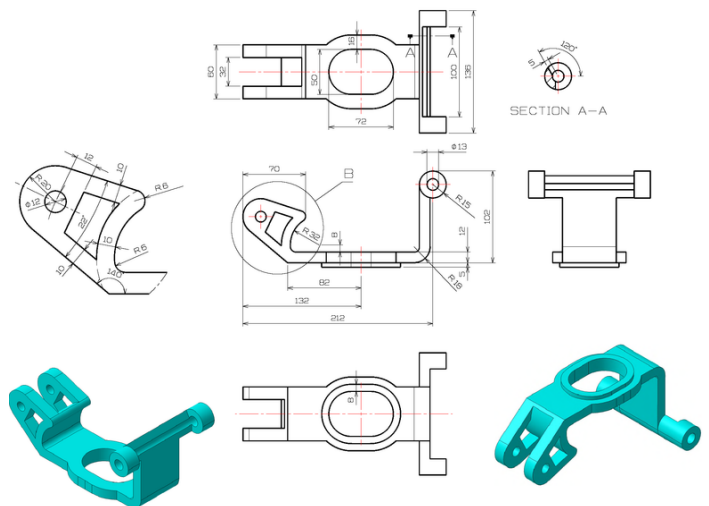
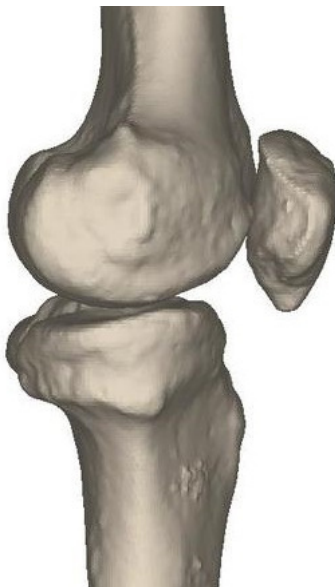
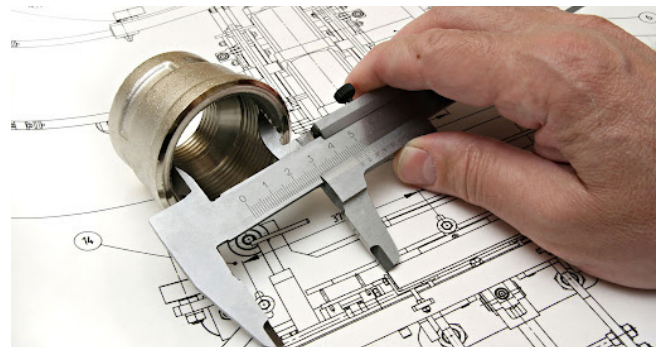


CAD SERVICES

Onefit projects is one of the leading company for CAD, Medical Cad and drafting services. Our technological expertise provides a full range of CAD services from planning and design to implementation and maintenance services to engineers, doctors, architects, contractors, manufactures, fabricators, and retailers.

Our CAD services include the following:

- 2D CAD Drawings
- Medical CAD
- 3D CAD Design
- 3D CAD Rendering Services
- CAD Conversion Services
- Clash Detection Services
- Contract Drafting Services
- Creo Conversion Services
- Engineering Drawings
- Piping layout
- Mechanical Design
- MicroStation Modelling
- Paper to CAD Conversion
- Point Cloud Conversion
- Raster to Vector
- Revit Design & Drafting
- Solidworks Design
- Solidworks Conversion

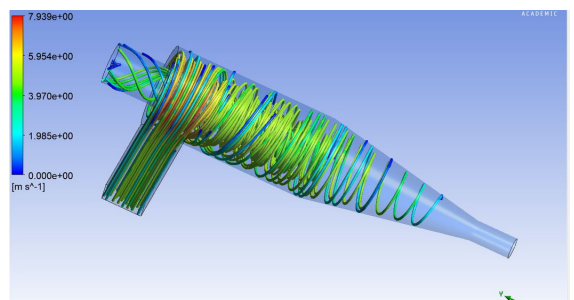
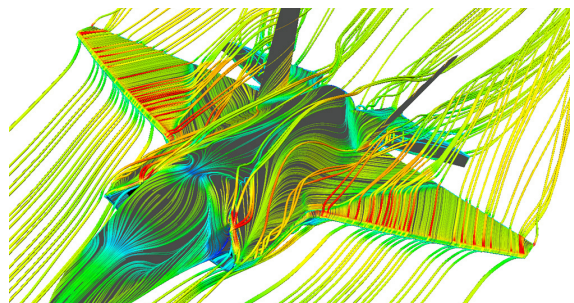
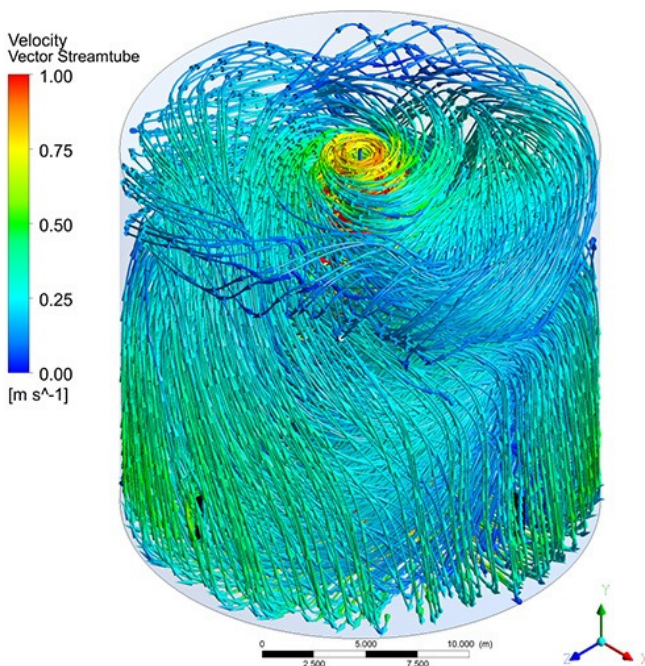
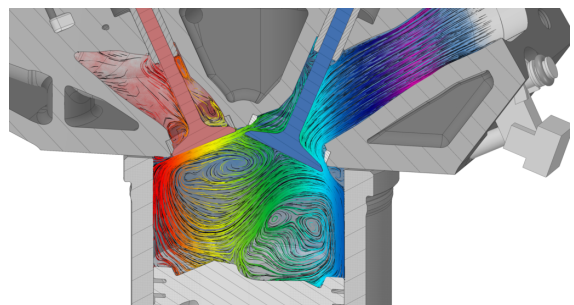
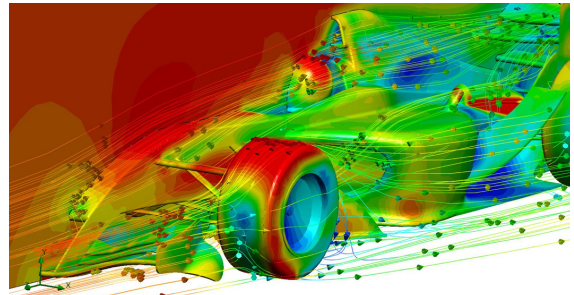


CFD SERVICES

Our CFD solution applies to a wide range of research and engineering problems in many fields of study and industries, including aerodynamics and aerospace analysis, weather simulation, natural science and environmental engineering, industrial system design and analysis, biological engineering, fluid flows and heat transfer, and engine and combustion analysis.

Our CFD services include the following:

- Steady state and transient CFD simulations of internal/external liquid and gas flows
- Analysis, design, and optimization of immersed or surrounding components
- Incompressible, transonic, and compressible flows
- Heat transfer and thermal modeling
- Rotating equipment and moving bodies
- Optimal turbulence modeling approaches: RANS, URANS, RSM, LES, DES
- Flow mixing
- Fluid-structure interaction
- Multiphase and free-surface flows
- Multiple reference frames, rotating and sliding interfaces, deformable meshes

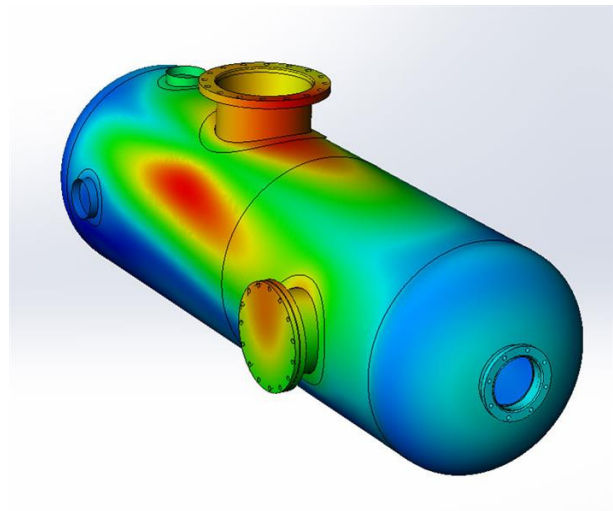
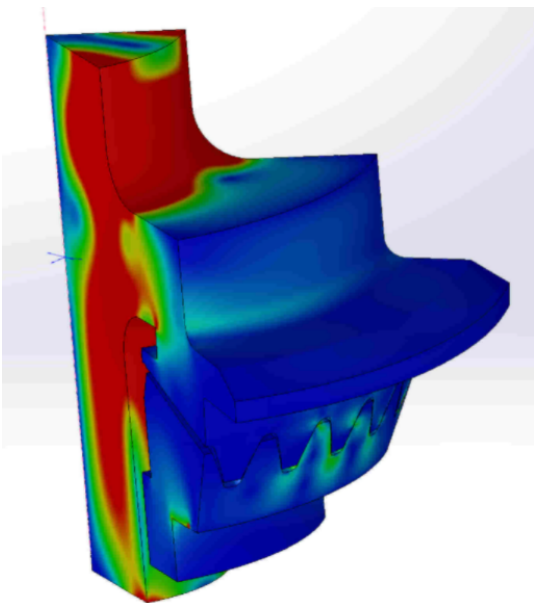
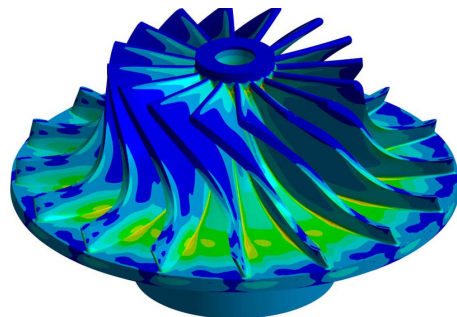
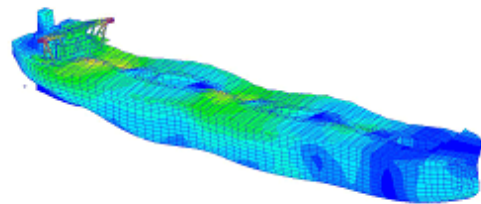
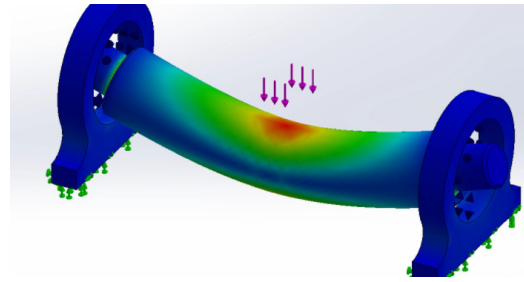


FEA SERVICES

Onefit projects provides full scale Finite Element Analysis for various Engineering Systems. FEA is used to do simulation of practical real-Life situations, design testing and validation and various other works. The services performed by our highly qualified engineers include:

Our FEA services include the following:

- Linear and non-linear static analysis
- Contact analysis of assemblies
- Buckling under static or combination of loads
- Normal modes, frequency response to vibrations
- Random response
- Transient, dynamic, vibration, and seismic response
- Collision, crash tests, and drop tests
- Steady state and transient heat transfer
- Thermal stress
- Fatigue analysis
- Parametric and Topological optimization



AUTOMATION SERVICES

Onefit projects offer you a unique comprehensive portfolio for every industrial automation application. With the automation systems you can cover all requirements while benefiting from maximum efficiency, flexibility, and cost effectiveness. Onefit projects boosts your business with the most advanced automation system, management and monitoring capabilities.

Our Automation services include the following:

- Interpretation and design of automated systems from specifications
- Piping and instrument diagram (P&ID) design
- Improvement of equipment safety, risk analysis and implementation of safety measures
- Design of clear and simple user interfaces
- Industrial robot integration and programming
- Remote control via Internet or phone
- Programmable logic controller (PLC) programming and standardization
- Process optimization and reduction of production disruptions
- Data collection and archiving
- OEM software optimization with Visual Basic (VB.NET) to meet the clients' unique needs
- Design of communication protocols between all types of equipment

