

**1. Trainee Engineer**  
**Qualification:** Any Diploma  
**Required Skills:** AutoCAD  
**Years of Experience:** Freshers  
**Industry Type:** MNC  
**Job Location:** Chennai

**2. Design Engineer**  
**Qualification:** B.E / B. Tech – Mechanical, Automobiles & Production Engineer  
**Required Skills:** Knowledge in Pro e / Catia / UG  
**Years of Experience:** Freshers  
**Industry Type:** MNC

**Job Location:** Bangalore  
**3. Autocad Draftsman**  
**Experience:** 3-5yrs  
**Qualification:** DME  
**Desired Candidate Profile:** Knowledge in AutoCAD with 3D exposure, particularly in plant machinery drawings. Should have experienced in AutoCAD Designing and Drafting. Experience / exposure in Java, an added advantage

**4. Draftsman**  
**Experience:** 0 – 1 yrs  
**Qualification:** DME

**Required Skills:** AutoCAD 2D  
**Job Location:** Chennai  
**5. Technical Leader**  
**Experience:** 1-3 yrs  
**Qualification:** BE (mechanical)  
**Required Skills:** Structural Analysis, Ansys, Hypermesh, FEA  
**Job Location:** Bangalore

**6. Engineer**  
**Experience:** 0 - 4 yrs  
**Qualification:** BE (mechanical)  
**Required Skills:** Structural Analysis, Ansys, Hypermesh, FEA



Book Post

If undelivered, please return to:



**Job Location:** Bangalore  
**7. Dynamic Analysis Engineer**  
**Experience:** 0-3 yrs  
**Qualification:** BE (structures / mechanical / aerospace / machine design)  
**Required Skills:** Ls-Dyna  
**Job Location:** Bangalore

**8. Life Management Engineer**  
**Experience:** 0-2 yrs

**Qualification:** BE (any specialization)  
**Required Skill set:** Life Methodologies / Any Tools  
**Job Location:** Bangalore  
**9. Structural Analysis Lead Engineer**  
**Experience:** 0-3 yrs  
**Qualification:** BE (mechanical / aerospace / structural engineer)  
**Required Skills:** Ansys, Hypermesh, FEA  
**Job Location:** Bangalore

**10. Lead Engineer Configuration Analysis**  
**Experience:** 0-4 yrs  
**Qualification:** BE (structural / aerospace / mechanical)  
**Required Skills:** Vibration Analysis, FEA



Shaping Dentistry with CAD/CAM TECHNOLOGY



...durable and more natural looking (multi-colored and translucent, similar to natural teeth) than previously machined restorations.

**In-Office and Dental Laboratory CAD/CAM Options**

CAD/CAM used for decades in the manufacturing industry to produce precision tools, parts and automobiles, has been increasingly incorporated into dentistry over the past 20 years.

CAD/CAM technology and metal-free materials are used by dentists and dental laboratories to provide patients with milled ceramic crowns, veneers, onlays, inlays and bridges. Dental CAD/CAM also is used to fabricate abutments for dental implants, used to replace missing teeth.

As the materials and technology available for CAD/CAM dentistry have improved over the years, so too have the restorations that patients can receive from this form of digital dentistry. Today's CAD/CAM restorations are better-fitting, more

Dental CAD/CAM technology is available for dental practices and dental laboratories, enabling dentists and their staff (or a laboratory technician) to design restorations on a computer screen. The CAD/CAM computer displays a 3-D custom image of your prepared tooth or teeth obtained by digitally capturing the preparations with an optical scanner. Alternatively, the 3-D images can be obtained by scanning a traditional model obtained from conventional impressions of the preparations.

The dentist or laboratory technician then uses those 3-D images and CAD software to draw and design the final restoration. The amount of time it takes for a dentist, in-office restoration designer or laboratory technician to design a restoration varies based on skill, experience, and complexity of case and treatment. Some cases could

take minutes, while others could require a half-hour or more of design time to ensure quality.

Once the final restoration is designed, the crown, inlay, onlay, veneer or bridge is milled from a single block of ceramic material in a milling chamber. The restoration then can be customized with stains and glazes to create a more natural look, before being fired in an oven (similar to ceramics and pottery), and then finished and polished.

**Benefits**

Research suggests that today's milled CAD/CAM restorations are stronger than those milled from earlier materials. They also are less likely to fracture.

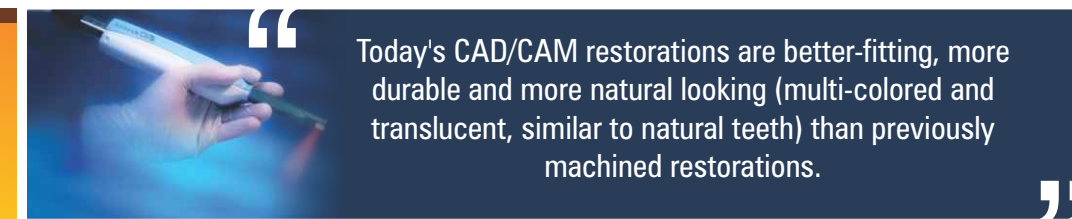
One of the advantages of CAD/CAM technology is that if your dentist has the technology in office, same day dentistry may be a treatment option for you. CAD/CAM dental technologies such as CEREC in-office or the E4D Dentist System can be used to make an inlay, onlay, crown or veneer restoration in a single appointment, while you wait.

If your dentist offers in-office CAD/CAM,

❑ Shaping Dentistry with CAD/CAM Technology

❑ AutoCAD Civil 3D 2011- key Features

❑ Job Opportunities



Please send your feedback to the Editor - Ms. P. Malarvizhi, Manager - International Business, CCTS at p.malarvizhi@caddcentre.ws

Graphic Designer - R. Rajakumar ■ CADD Centre and CADD Centre logo are registered trademarks of CADD Centre Training Services Pvt Limited. ■ All the above mentioned brand names and trademarks belong to respective owners & acknowledged. ■ CADD ZOOM is an internal monthly newsletter of CADD Centre Training Services. For free circulation to its employees & customers!

Corporate Office: #91, Dr. Radhakrishnan Salai, Gee Gee Crystal, 8th Floor, Mylapore, Chennai - 4. Ph: (91 44) 4596 6100



www.caddcentre.ws



you do not require traditional impressions, a temporary restoration or a second appointment. You will only receive local anesthetic (be numbed) once for any necessary tooth preparations.

An exception to this process is the all-ceramic bridge, since it is created in a laboratory using the CAD/CAM technology. All-ceramic bridge restorations require the patient to visit from the second time. In such cases, a temporary restoration would be necessary.

Another exception is if your dentist prefers to fabricate the CAD/CAM restoration while you are not in the office, making it a two-appointment process. Some dentists prefer this approach in order to dedicate more time to the design and characterization processes involved with creating a CAD/CAM restoration. A temporary also would be required in this instance.

**Special Considerations**

CAD/CAM technology is not a replacement for the accuracy and talent provided by a dentist or dental laboratory technician. Dentists must be precise in creating the initial tooth preparation; both dentists and laboratory technicians must be accurate

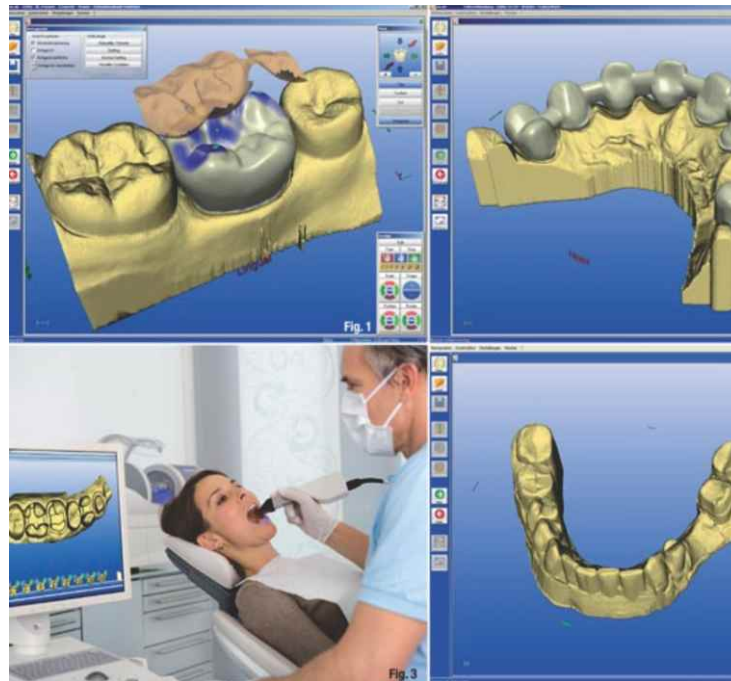
drawing the restoration.

Equally important is the accuracy and skill with which they design a restoration, particularly since the fit of a restoration is critical to preventing future tooth damage. For example, an ill-fitted crown, veneer, inlay or onlay can leave space between the teeth, or between the tooth preparation and the restoration. This could lead to an increased risk of infection or disease.

**When to Choose CAD/CAM Dentistry**

It is important to note that not every tooth can be treated with a CAD/CAM restoration. Your dentist will determine if a CAD/CAM restoration is among the appropriate treatment options for your condition.

Depending on the type of restoration that's



dentist may prefer conventional laboratory fabrication techniques that have a longer and more proven track record for accuracy of fit. Therefore, patients must discuss their particular situation and desires with their dentist, who will make the final treatment decision based on a thorough examination.

Courtesy: [www.yourdentistryguide.com](http://www.yourdentistryguide.com)

components—or create your own based on a design standard.

**Pipes**

Use rules-based tools to lay out sanitary and storm drainage systems. Break or join existing pipe networks or make changes to pipe networks and structures using graphical or numerical input and conduct interference checks. Plot and complete final drafting of the pipe network in plan, profile, and section views, and share pipe network information, such as material and size, with external analysis applications.

**Earthwork Calculations**

The software enables you to more quickly process earth volumes between your existing and proposed surfaces using composite volume or average end area methods. Generate mass haul diagrams for analyzing the distance over which cut and fill can balance, the amount of material to be moved, the direction of movement, and the identification of borrow pits and dump sites.

**Criteria-Based Geometric Design**

More quickly lay out plan and profile alignment geometry with design criteria based on government standards or customized for clients' needs. Design constraints alert users when standards violations occur, providing immediate feedback so necessary modifications can be made.

models that dynamically update. Focus on optimizing the design and know the production drawings and annotations stay up to date. Lay out roundabouts more quickly, including signage and striping, based on common design standards.

**Production Drafting**

Automatically generate production plans such as fully annotated section sheets, profiles, grading plans, and more. Most important, drafting can be generated across multiple drawings by using xrefs and data shortcuts. The result is a workflow that enables production sheets to use a single instance of the model. And if the model changes, you can more quickly synchronize all production sheets to reflect the update.

**Plan Production**

Comprehensive tools assist with the layout of cross section and plan and profile sheets. Fully integrated with the AutoCAD software's Sheet Set Manager, the Plans Production wizard automates the layout of sheets and matchlines along alignments, and generates plan and profile sheets based on the layout. The finished product is a series of drawing sheets ready for final annotation and plotting. The map books functionality lays out sheets across your project while generating key maps and legends for your entire sheet set. This capability is ideal for laying out utility maps and grading plans.

automatically when the design changes. It also automatically responds to changes in drawing scale and view orientation, so labels update instantly when the plot scale is changed or rotated within different viewports.

**Reporting**

AutoCAD Civil 3D software provides more flexible, real-time, and extensible report generation. Because the data is derived directly from the model, reports can more easily be updated, providing quicker feedback as design changes are made.

**Drafting Styles and Standards**

AutoCAD Civil 3D provides country-specific CAD styles to control many aspects of drawing display. Colors, linetypes, contour increments, labeling, and much more are fully controlled by styles.

**Storm water Analysis and Simulation**

Design and analyze stormwater systems with integrated simulation tools for collection systems, ponds, and culverts. Help reduce post-development runoff, and prepare reports to support sustainability requirements for stormwater quantity and quality.

**Geospatial Analysis and Mapping**

AutoCAD Civil 3D includes geospatial analysis and mapping capabilities to support engineering-based workflows. Analyze spatial relationships between

AutoCAD Civil 3D software enables you to deliver higher-quality transportation, land development, and environmental engineering projects faster. The software's purpose-built tools support building information modeling (BIM) processes and help reduce the time it takes to design, analyze, and implement changes.

**Surveying**

Survey functionality is fully integrated in Civil 3D, so you have a more consistent environment for all tasks, including direct import of raw survey data,

least-squares adjustment, editing of survey observations, and automated creation of survey figures and surfaces. You can create and edit survey figure vertices interactively, and identify and edit crossing breaklines to avoid potential issues, resulting in points, survey figures, and surfaces that can be used throughout the project.

**Surfaces and Grading**

With Civil 3D, you can build surfaces from traditional survey data, such as points and breaklines. Utilize large data sets from aerial photogrammetry, laser

scanning, and digital elevation models by taking advantage of the surface reduction tools. View the surface as contours or triangles, or create elevation and slope banding analysis.

**Corridor Modeling**

Corridor modeling combines horizontal and vertical geometry with customizable cross sectional components to create a parametrically defined, dynamic 3D model of roads and other transportation systems. Use the included subassemblies—ranging from travel lanes, sidewalks, and ditches to complex lane



**AutoCAD Civil 3D 2011**

**- key Features**

**Purpose-Built Tools for Road and Highway Design**

Transportation-specific design tools offer a more efficient way to design roads and highways. Build interactive intersection

**Annotation**

The software's annotation is derived directly from design objects or through external references, and updates

drawing objects. Extract or create new information by overlaying two or more topologies. Create and use buffers to select features within the specified buffer

Courtesy: [www.autodesk.com](http://www.autodesk.com)