

# Designed For Performance

## *A Design Showcase*

CM Engineering has earned an international reputation by helping our clients conserve energy and operating costs. Our new building showcases many of the same technologies that we utilize in our client work. It will be among the most energy-efficient buildings in the area.

Conservation starts with good design. To be efficient, a building must be tight.

## *Exceeding Standards*

Our new home features roof and wall insulation that far exceeds most industry standards. Windows and skylights have been designed for minimal thermal conductivity. But tight buildings must be well-ventillated.

## *The Indoor Environment*

To ensure the best possible indoor environment for occupants, our building utilizes a desiccant based air-to-air energy recovery system that exchanges indoor air 15 times each day, while moving heat energy out during warm months and keeping it inside during cold months.

## *Brighter Solutions*

LED lighting is used throughout. In addition to giving more light for less energy cost, LED lamps burn cooler, last longer and can be chosen in color temperatures that maximize employee comfort by closely replicating natural light. Skylights save additional lighting energy and add to employee comfort by allowing natural light into work spaces. Motion detectors are used throughout to ensure that no lighting energy is wasted in unoccupied spaces.

## *In The Loop*

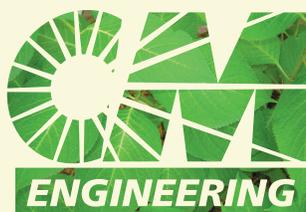
By far the biggest energy savings comes from our one-pipe, closed loop, ground source geothermal exchange HVAC system. With it, we're able to remove excess heat energy from the indoor environment in warm months. This energy is stored in the ground until cooler months when it can be re-introduced to the building.

## *Bountiful Harvest*

We're protecting the environment in other ways, too. Our rainwater harvesting system will supplement our gray water and irrigation needs. It will limit run-off into local storm drains and water ways and it will reduce our demand on the municipal water system.

The new office building is another example of our commitment to the environment and to engineering excellence.

On December 1, find us at 2801 Woodard Drive, Suite A, in north Columbia. Zip code will be 65202.



**BRIGHT SOLUTIONS IN ENGINEERING**