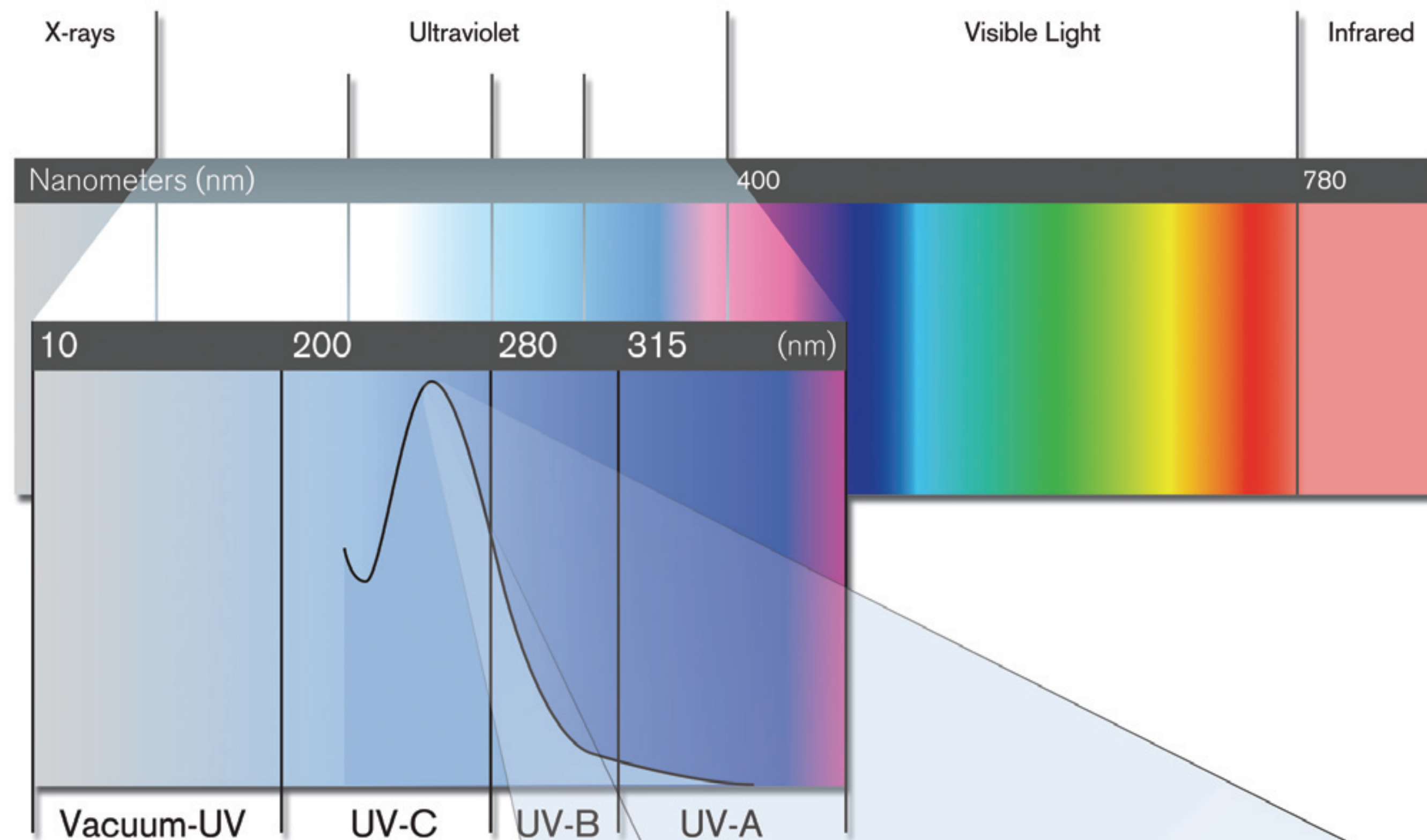


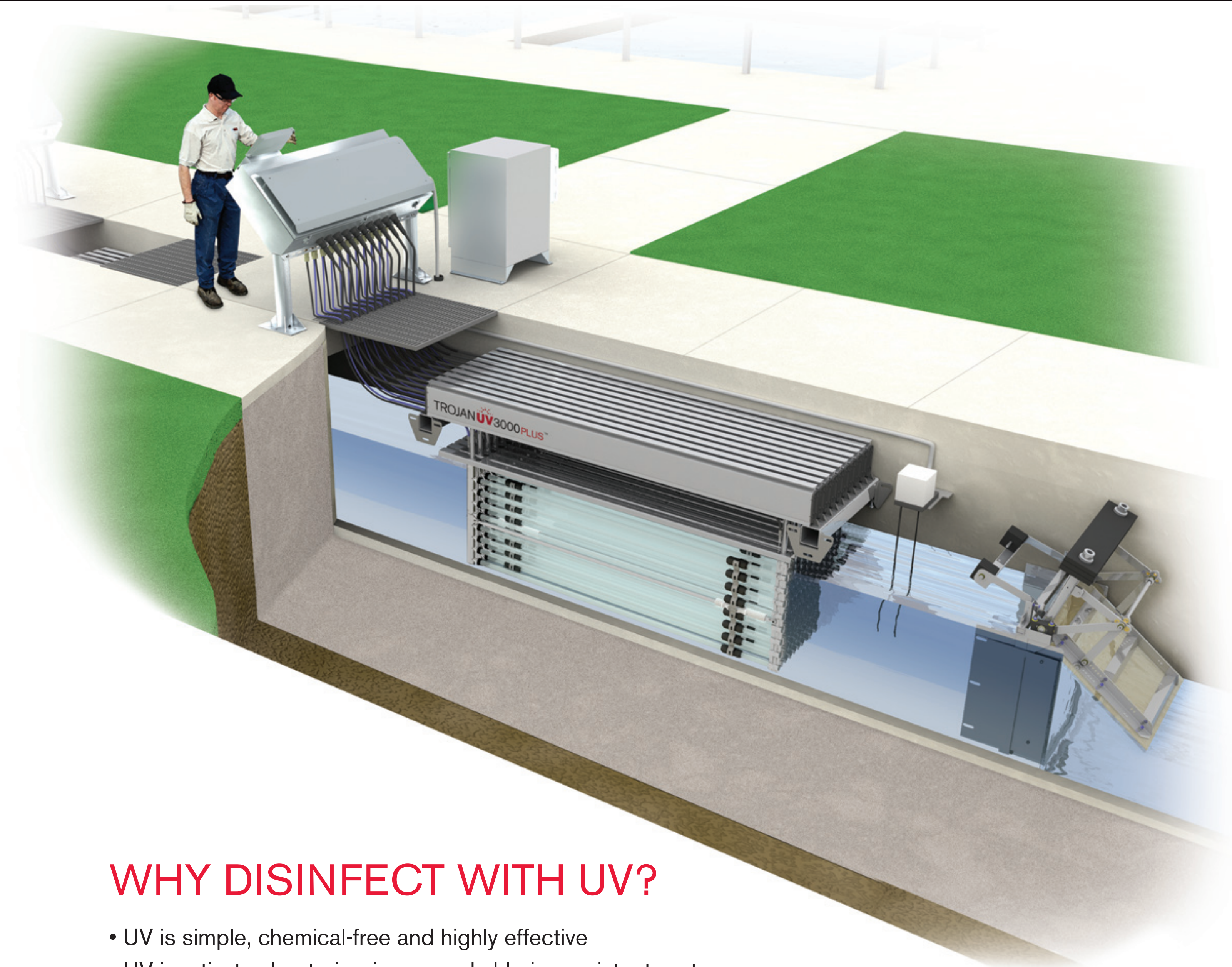
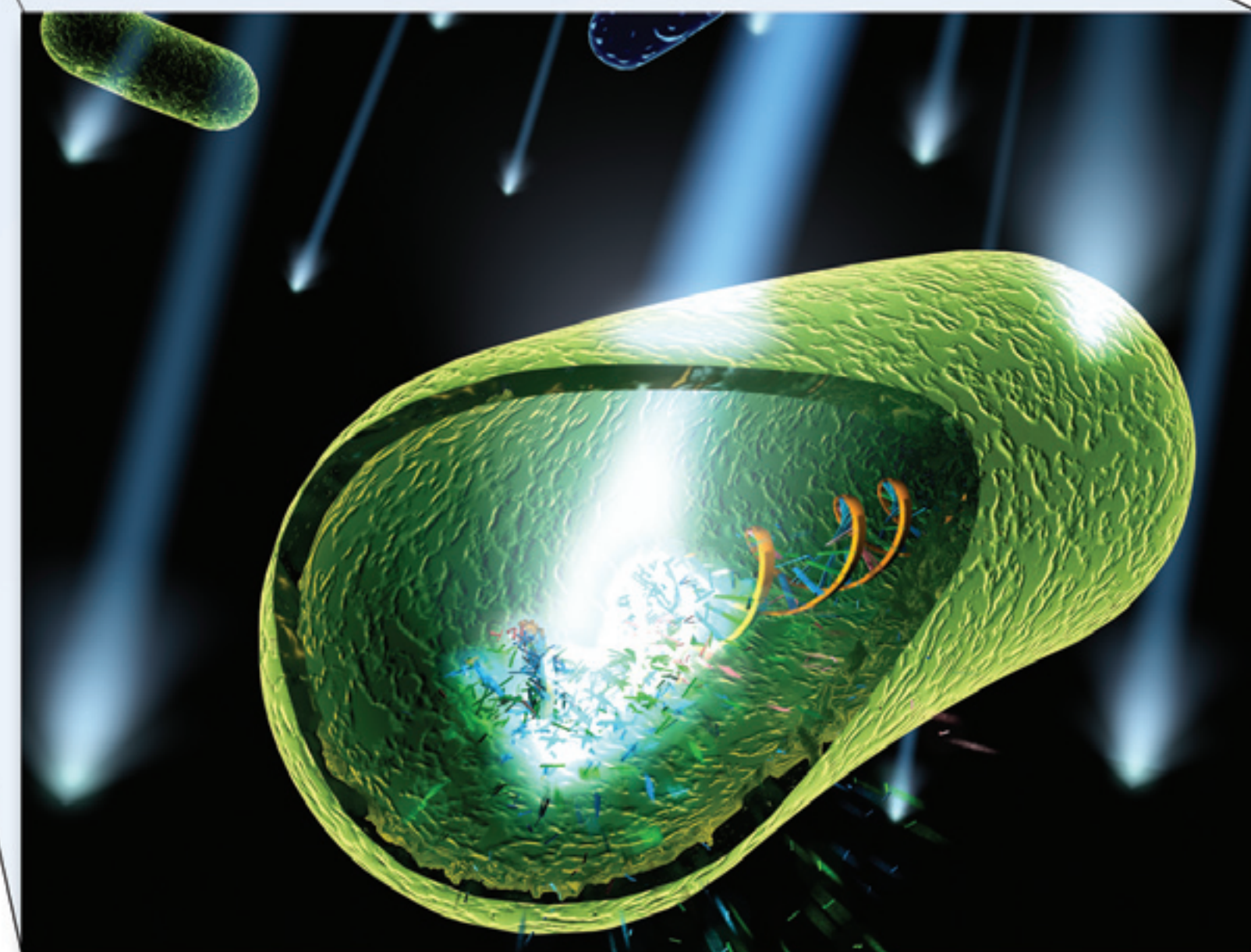
WHAT IS ULTRAVIOLET (UV) LIGHT?

Ultraviolet (UV) light is a form of light that is invisible to the human eye. Specific wavelengths, between 200 and 300 nanometers (or billionths of a meter), are categorized as germicidal – meaning they eliminate bacteria and viruses. UV light is an environmentally-friendly, chemical-free, highly-effective way to safeguard water against harmful microorganisms.



HOW UV LIGHT WORKS

Microorganisms in the water are exposed to ultraviolet light when they pass by special lamps submerged in the wastewater. The UV energy instantly destroys the genetic material (DNA) within bacteria, viruses and protozoa, eliminating their ability to reproduce and cause infection. Unable to multiply, the microorganisms die and no longer pose a health risk.



WHY DISINFECT WITH UV?

- UV is simple, chemical-free and highly effective
- UV inactivates bacteria, viruses and chlorine-resistant protozoa
- UV is used at over 20% of all North America wastewater treatment plants
- UV is extremely safe – it eliminates the transportation, storage and handling of toxic, corrosive chemicals
- UV does not require special staff training, certification, or emergency response & evacuation plans
- UV is environmentally-friendly and has no negative effects on aquatic life
- Unlike chlorine, UV cannot be overdosed and it does not create and release carcinogenic disinfection by-products or toxins into receiving lakes and rivers
- UV is very cost-competitive with chemical disinfection and offers lower annual operating costs

TROJAN UV FACTS

- Trojan has over 4,000 municipal UV systems worldwide – the largest installed base on the planet
- Every day, more than 17 billion gallons of water are treated by Trojan's UV systems
- The 400+ employees of Trojan have pioneered some of the most important breakthroughs in the application of UV light for water treatment – including automatic chemical/mechanical sleeve cleaning