



# GreenTech Hub for Advanced Horticulture

Located in the heart of Kent at NIAB's East Malling site and equipped with cutting-edge technology, the GreenTech Hub for Advanced Horticulture offers you a full-service research solution.

The specialist glasshouses, high-tech growth rooms and modern polytunnels complement NIAB's existing facilities, including; extensive laboratory facilities, field plantings of major horticultural crops and demonstration plantings to showcase the latest technologies and growing systems. Our expert team are on hand to help advance your horticultural agronomy and research needs.

The Wine Innovation Centre with Research Winery will help drive new development for the UK's rapidly expanding viticulture and wine industry.

*“ NIAB's new state-of-the-art facilities allow our scientists to emulate the best commercial production systems and conduct innovative research with the horticultural and viticulture industry ”*

Prof. Mario Caccamo, CEO, NIAB



Glasshouses

## Glasshouses

Installed to reflect modern commercial glasshouse facilities, featuring:

- 1,928m<sup>2</sup> of glasshouses with compartments ranging from 24-352m<sup>2</sup>
- Nine climate-controlled compartments with heating and cooling facilities
- HPS and LED lighting available
- Irrigation: Misting, drip and hand watering facilities
- Moveable benches with ebb and flow tops
- Insect-proofed netted compartments and lockable zones for high-risk pest and pathogen research
- All facilities installed to reflect modern commercial glasshouse facilities.

## Polytunnels

- 14 modern polytunnels (totalling 1,960m<sup>2</sup>)
- Easy washdown to maintain high levels of biosecurity.

Plant growth and management at the GreenTech Hub for Advanced Horticulture is provided by an experienced team of horticultural husbandry staff, working in consultation with leading crop research scientists.

## Environmental Sustainability

The Hub has been built using the latest environmental technologies:

- Solar PV
- Rainwater harvesting
- Air-source heat pumps
- An energy dashboard for growth rooms and cold stores.

## Plant Growth Rooms

- Seven independently-controlled environmental growth rooms, from 10m<sup>2</sup> to 20m<sup>2</sup>
- Temperature controls from 15°C to 38°C
- High-tech humidity control for uniform environments
- A vernalisation chamber with ranges from 4°C to 21°C
- Containment level 2 growth rooms which are suitable for licenced pathogen work
- Broad-spectrum LED plant growth lighting (500-800  $\mu\text{mol}/\text{m}^2/\text{s}$ ), allowing for deep light penetration in dense crops.

## Wine Innovation Centre with Research Winery

A 260m<sup>2</sup> research winery, coming soon. Including:

- Fermentation area
- Temperature controlled cellar
- Pressing room
- Laboratory area.

## Cold Rooms

- 35m<sup>2</sup> and 43m<sup>2</sup> cold rooms, with full temperature control of -2°C to +4°C.

## Laboratory Area

- A fully equipped laboratory space for sample preparation and processing.

## Client zone

A modern meeting room with AV support is available for hire. The atrium, with stunning views across the vineyard, is a flexible space suitable for a range of events.



Client zone

Take a  
virtual  
tour





The GreenTech Hub for Advanced Horticulture will help find solutions to some of the most pressing issues facing growers and food producers. From developing more sustainable crop production systems, to reducing waste and implementing efficient use of resources including water, nutrients and light.

By incorporating technology used by the most advanced commercial growers, our scientists will accurately demonstrate solutions the industry can adopt.

Pricing available on request.

Find us:

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Growing Kent & Medway is investing in research facilities across the region to help horticultural and plant-based food and drink businesses to innovate and grow.

Join our network and get access to grants, business support, and research facilities, including the new Medway Food Innovation Centre and Biotechnology Hub.



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