

# Software Engineering for Microscopy

## Software Solutions

Development of customized applications (based on Carl-Zeiss systems), such as

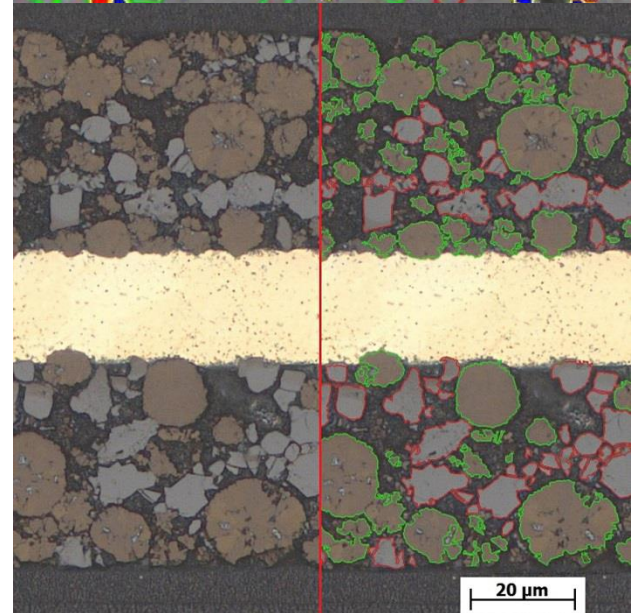
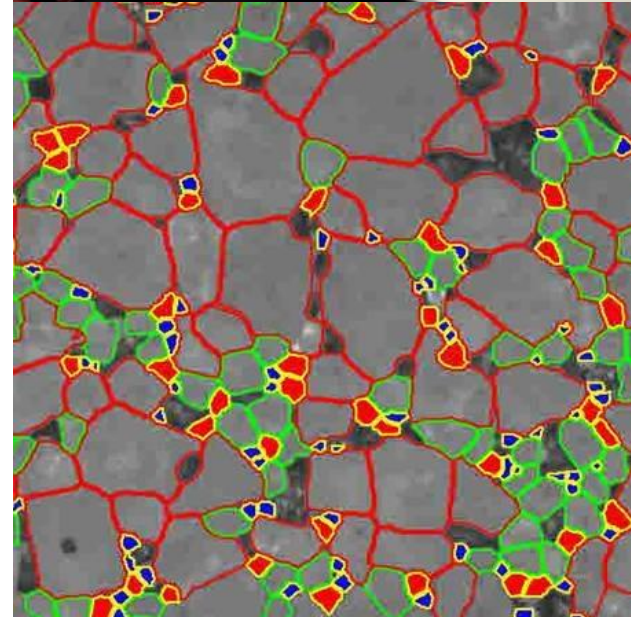
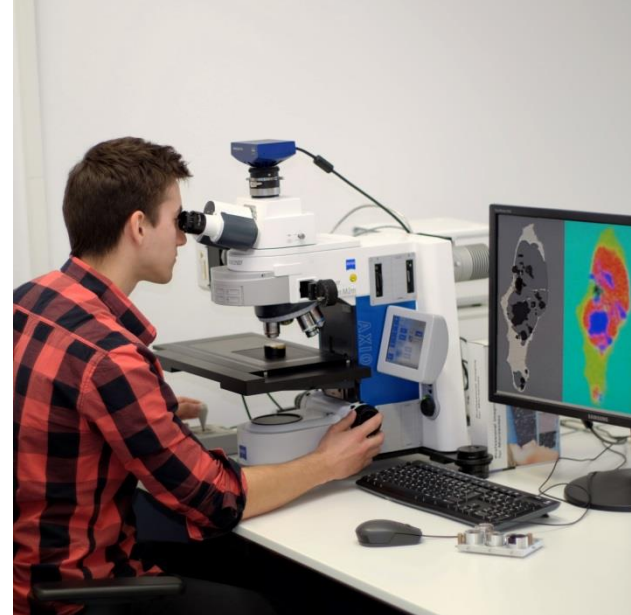
- Automated image acquisition with light optical microscope for microscopy-scans of whole components
- Tile-image acquisition for scanning electron microscopy
- Software analysis for quality control, e.g. multi-layer components
- Measuring of geometric parameters and implementation of individual measuring programs
- Determination of radius of curvature and thickness of curved layers
- Coaching and implementation of GxP projects (IQ,OQ,..)

## Implementation of additional functionalities

- Development and implementation of specific microscopy components, e.g. automated polarization filters
- Integration of data input, e.g. barcode scanning
- Support of external cameras
- Data processing and statistic post processing for special analysis
- Customer specific report generation

## Software Technologies

- Operating systems: MS Windows (32- and 64-bit)
- Programming languages: C#, C/C++, VB.Net, VBA, Python, Java
- Script languages: LabVIEW, MATLAB, Commander
- Libraries: .NET, OpenCV, Windows Forms, WPF
- Standard software packages: MS Office
- Database technologies: MS SQL Server, Firebird
- Web-languages: JavaScript, PHP, HTML, XML



# Products

## GVision

Software-application for user-friendly analysis and for editing huge images

- Support of common image formats
- Exact image adjustment by using rotation-points for further measurement
- Direct measurement of distance and grey-values
- Accessibility and managing of predefined image details
- Image processing for consistent report generation
- Automated addition of scale bars
- Extraction of images with visualization of image coordinates

Price: 490 €, plus sales taxes



## EquiReM

Web-based reservation system for equipment and hardware

- Visualization of slots with daily and weekly review
- Support of three hierarchical users (operator, professional, administrator)
- No limits in quantity of users, workgroups and equipment
- Blocking and information for maintenance and out of service conditions
- Statistics for evaluation and visualization of service accounts and expenses
- Accessible by any browser, also suitable for tablets and smartphones
- Adaption for customer specific requirements and personalization (e.g. company logo)

Price on request

## EquiReM

matworks Equipment Reservation Manager

### Reservierungssystem

